



PROPOSED 2022-2027

BOND

PROGRAM

City of San Antonio

Drainage & Flood Management 2022 Bond Program Development October 28, 2021

COMMUNITY COMMITTEE MEETING

Agenda

PROPOSED 2022-2027

BOND

PROGRAM

City of San Antonio



Bond Program Overview



Community Committee Role & Responsibilities



Ethics & Meeting Guidelines



Staff Recommendation of Projects



Next Steps

Bond Overview

Presented by:
City Manager's Office



City Council Updates



**OCT
2021**

**October 13, 2021
B-Session**

Staff Recommendations

\$1.2 Billion

Proposed Proposition Funding:

- \$450M – Streets
- \$300M – Parks
 - 126M Linear Greenway
- \$150M – Drainage
- \$150M – Housing
- \$150M – Facilities
- \$15.7M – Public Art
- \$129M - Citywide
- \$ 87M - Regional

**OCT
2021**

**October 14 – 20, 2021
Follow Up Meetings**

Councilmember Meetings

\$1.2 Billion

Discussed Priorities:

- Increase in Basic Infrastructure Funding
- Decrease in Citywide Funding Recommendations
 - Greenway Trails
 - Outside Agency Projects

**OCT
2021**

**October 27, 2021
Special Session**

Revised Staff Recommendation

\$1.2 Billion

Proposed Proposition Funding:

- \$480M – Streets
- \$274M – Parks
 - \$110M Linear Greenway
- \$162M – Drainage
- \$150M – Housing
- \$134M – Facilities
- \$15.7M – Public Art
- \$ 99M - Citywide
- \$ 102M - Regional

\$57 Million In Recommended Adjustments

Additions					Reduced/Removed				
Project	District	October 13, 2021 Recommendation	Added Amount	Revised Recommendation	Project	District	October 13, 2021 Recommendation	Reduced Amount	Revised Recommendation
Eastside Area Street Improvements	2	\$ 6,750,000	\$ 100,000	\$ 6,850,000	N. New Braunfels Drainage Phase 1	10	\$ 9,000,000	\$ (9,000,000)	\$ -
District 4 Multigenerational Center at Palo Alto College	4	\$ 5,000,000	\$ 5,000,000	\$ 10,000,000	Brackenridge Park	CW	\$ 5,000,000	\$ (2,500,000)	\$ 2,500,000
Cumberland Area Drainage Improvements	5	\$ -	\$ 11,300,000	\$ 11,300,000	Citywide Equipment Warehouse	CW	\$ 7,250,000	\$ (7,250,000)	\$ -
Tom Slick Park	6	\$ -	\$ 500,000	\$ 500,000	Citywide Public Safety Facility & Resiliency Improvements	CW	\$ 11,805,000	\$ (675,000)	\$ 11,130,000
Broadview & Oakwood Drainage Improvements Phase 1	7	\$ 9,400,000	\$ 1,000,000	\$ 10,400,000	Linear Greenway Trails	CW	\$125,825,000	\$ (15,825,000)	\$110,000,000
Seeling Drainage Improvements Phase 4	7	\$ 7,180,000	\$ 700,000	\$ 7,880,000	San Antonio Botanical Center (SABOT)	CW	\$ 5,000,000	\$ (2,500,000)	\$ 2,500,000
Kentwood Manor Phase 2 Drainage	9	\$ -	\$ 7,400,000	\$ 7,400,000	SAPD Impound Lot Relocation	CW	\$ 10,000,000	\$ (10,000,000)	\$ -
Toepperwein (Nacogdoches to Raintree Forest)	10	\$ -	\$ 14,500,000	\$ 14,500,000	Sunken Gardens Theater	CW	\$ 20,000,000	\$ (10,000,000)	\$ 10,000,000
K9 for Warriors Partnership	CW	\$ -	\$ 2,250,000	\$ 2,250,000					
Port San Antonio	Regional	\$ -	\$ 15,000,000	\$ 15,000,000					
Total Added			\$ 57,750,000		Total Reduced			\$ (57,750,000) 5	

Linear Greenway Trails

Revised
Recommendation

\$110M

20.3 Miles

Includes Activate SA Projects

Projects	District	Miles	Estimated Cost
Leon Creek Greenway (Hwy 16 to Medina River Greenway)	3, 4	6.4	\$ 21,151,350
Culebra-Helotes Connector Trail (Culebra Trailhead to Helotes)	6	1.7	\$ 8,222,588
Leon Greenway Connection (Port SA to Camargo to Pearsall Park) <i>(Design Only)</i>	4, 5		\$ 1,886,500
Huebner Creek to Medical Center Trail & Park Phase 1 (Floyd Curl to Eckert)	7, 8	1.0	\$ 11,919,490
Zarzamora Creek Greenway (Ingram Rd to Jane Dubel Park)	7	1.8	\$ 6,450,510
Beitel Creek Greenway (Thousand Oaks to LBJ Park)	2, 10	2.7	\$ 13,550,900
French Creek Greenway (OP Schnabel to Loop 1604)	7, 8	2.8	\$ 10,277,960
Hays Street Bridge Connections (Downtown to Lockwood Park)	1, 2	0.8	\$ 9,356,314
Citywide Greenway Connections & Enhancements <i>(Fill gaps in trail amenities)</i>	CW	1.0	\$ 5,742,275
Maverick Creek Greenway (UTSA Blvd to Loop 1604)	8	0.8	\$ 4,001,844
Westside Creeks (Lighting Pilot Project)	1, 3, 5, 6, 7		\$ 3,553,550
Leon Creek Greenway (Pedestrian Side Path Pilot Project)	7, 8	TBD	\$ 4,013,289
Brooks Greenline Connection to Salado Creek Greenway <i>(Design Only)</i>	3		\$ 1,219,900
Flyway (Salado to Olmos Basin) <i>(Design Only)</i>	9, 10		\$ 2,442,000
West College Link (St. Mary's to Memorial High School to Zarzamora Creek)	5	0.8	\$ 4,659,530
Westside Creeks (Neighborhood Connectivity Improvements)	1, 3, 5, 6, 7	0.5	\$ 1,552,000
Total	16 Projects	20.3	\$110,000,000

Proposed 2022 Bond Program

\$1.2 Billion

Reduce \$129 Million in Citywide Projects to \$98 Million

Increase Amount Towards Basic Infrastructure (Streets, Sidewalks and Drainage) from \$600 Million to \$641 Million



**STREETS, BRIDGES
& SIDEWALKS**

\$480M



**PARKS &
RECREATION**

\$274M



**DRAINAGE &
FLOOD CONTROL**

\$162M



HOUSING

\$150M



**MUNICIPAL
FACILITIES**

\$61M



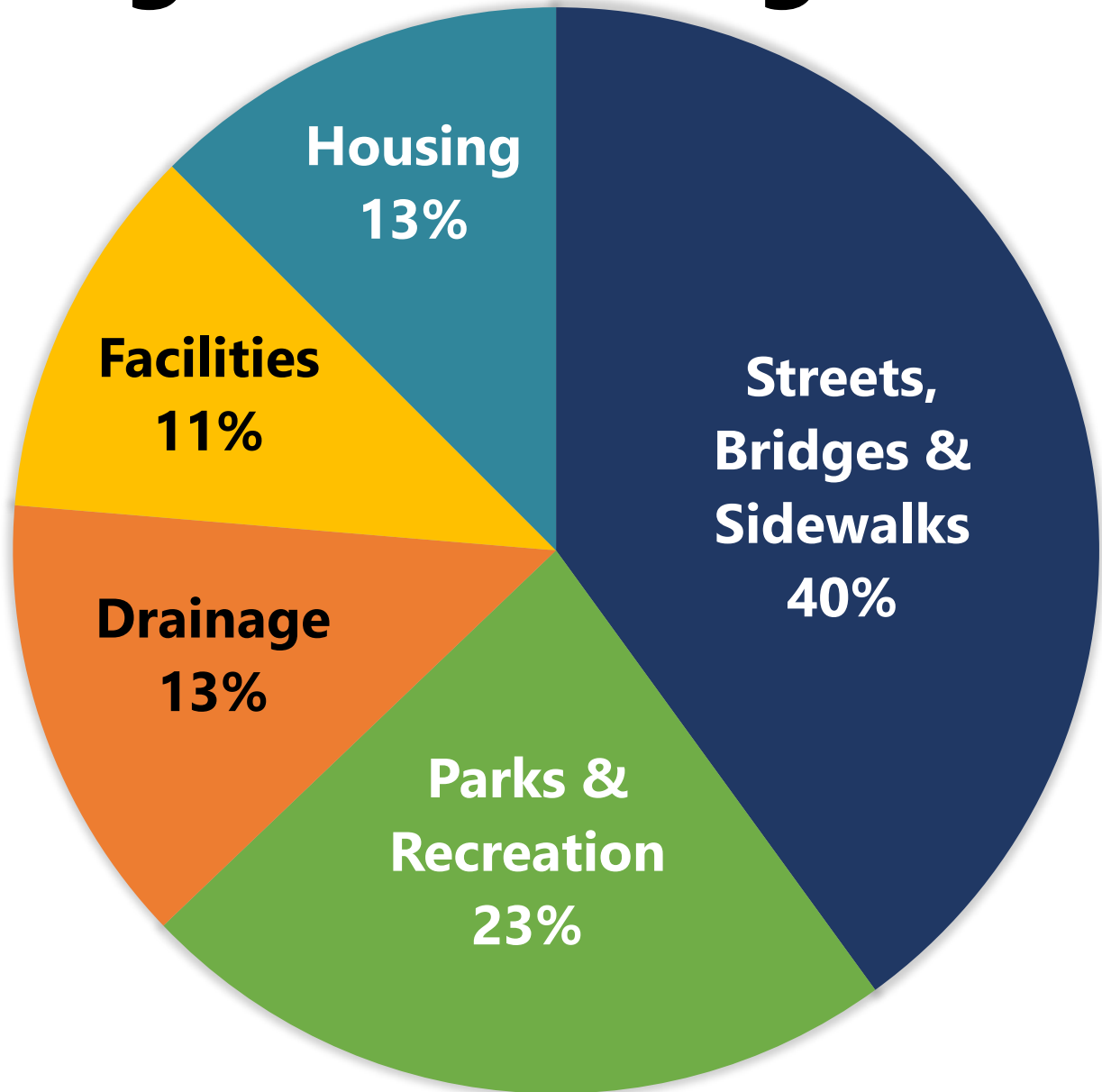
**PUBLIC SAFETY &
HEALTH FACILITIES**

\$73M

Proposed 2022 Bond Program Funding By Proposition

Proposition	Amount
Streets, Bridges & Sidewalks	\$480,044,000
Parks & Recreation	\$274,295,000
Drainage	\$161,571,000
Facilities	\$134,090,000
Housing ¹	\$150,000,000
Total	\$1,200,000,000

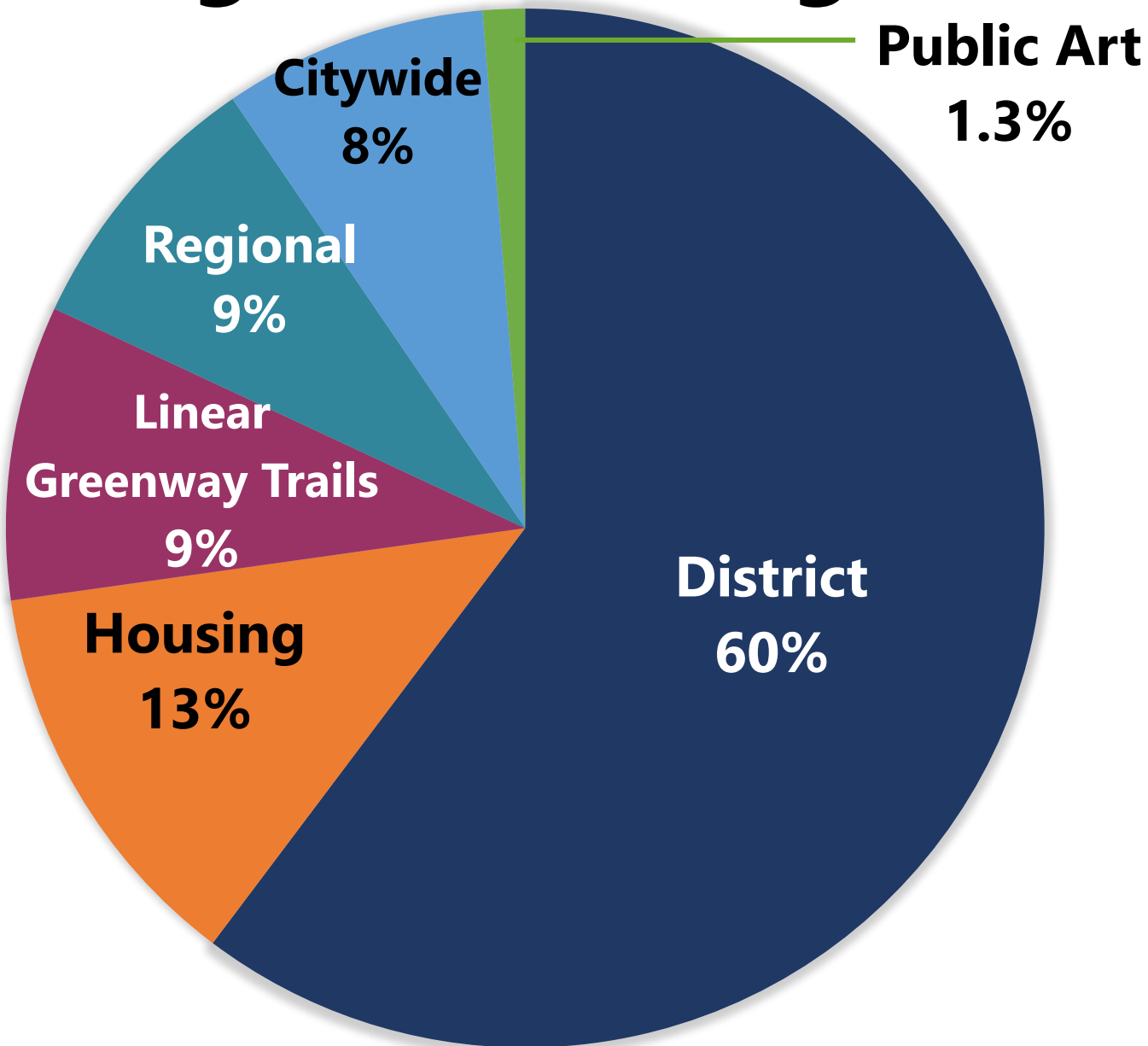
¹Public Art Allocation (1.5%) does not apply to Housing Bond funding.



Proposed 2022 Bond Program Funding By Category

Category	Amount
District	\$723,325,000
Housing	\$150,000,000
Linear Greenway Trails	\$110,000,000
Regional	\$102,350,000
Citywide	\$ 98,608,240
Public Art ¹	\$ 15,716,760
Total	\$1,200,000,000

¹Public Art Allocation (1.5%) does not apply to Housing Bond funding.



Bond Committee Appointments



Bond Committees

- Serve in an advisory role
- Obtain community input
- Consider and recommend potential projects to City Council for 2022 Bond Program



STREETS, BRIDGES
& SIDEWALKS



DRAINAGE &
FLOOD CONTROL



PARKS



FACILITIES



HOUSING



Appointments

13

APPOINTED BY MAYOR

(3) Tri-Chairs & (10) Co-Chairs 2 Per Committee

15

APPOINTED BY COUNCIL

(3) Citizen Appointments Per Council District Per Committee

160

Total Committee Appointments

Tri-Chairs



Berto Guerra

Brandon Logan

Jamie Kowalski

Co-Chairs



Streets

Rod Sanchez, Assistant City Manager

John Bailey
Paola Fernandez

Drainage

Rod Sanchez, Assistant City Manager

Chris Garcia
Suzanne Scott

Parks

David McCary, Assistant City Manager

Jeanette Honermann
Jim Bailey

Facilities

Maria Villagomez, Deputy City Manager

Chris Martinez
Dwayne Robinson

Housing

Lori Houston, Assistant City Manager

Katie Vela
Shirley Gonzales

Bond Committee Members

Co-Chairs

Chris Garcia

Suzanne Scott

Members

Abe Salinas	District 1	Leo Castillo	District 4	Alan Ross	District 7
Caleb Etheredge	District 1	Mark Guerrero	District 4	Christopher Fullerton	District 8
David Erik Waters	District 1	Justin Davidson	District 5	Gib Hafernicks	District 8
Andrea Narendorf	District 2	Maria Tijerina	District 5	Mario Aguilar	District 8
Debbie Reid	District 2	Rose Araujo-Iracheta	District 5	Chris Deeves	District 9
Pedro J Rodriguez	District 2	Joel Esteban Mesa	District 6	Julie Magadance	District 9
Frates Seeligson	District 3	Fernando Camarillo	District 6	Luis Alday	District 9
Giselle Cavillo	District 3	Andy Greene	District 6	Minnie Abrego-Sanchez	District 10
Henry Avila	District 3	Bianca Maldonado	District 7	Patrice Melancon	District 10
Gabriel Gonzales	District 4	Ernest Mendoza	District 7	Paul Royal-Priest	District 10

Community Bond Committee

Project Review and Recommendation Process

- Obtain community input and discuss staff recommended projects.
- Staff will provide responses to the Committee(s) on follow up requests within 48 hours and post responses onto City's 2022 Bond website before the next Committee meeting.
- Bond Committees will recommend a list of proposed projects for City Council's consideration within the approved proposition totals.
- Bond Committees will also recommend a list proposed projects for consideration if proposition totals are changed by City Council in January.
- City Council reviews and approves a final list of projects for inclusion in proposed Bond Program election.

Meetings For Each Proposition

- **Meeting (1)** – Ethics & Staff Recommendations
- **Meeting (2)** – Citizens to be Heard & Deliberation
- **Meeting (3)** – Citizens to be Heard & Deliberation
- **Meeting (4)** – Deliberation & Action on Final Recommendations

**Public may attend all meetings.*



Community Bond Committee Meetings

- Committee meetings will begin on October 27.
- All meetings will be held at Henry B. Gonzales Convention Center.
- Parking will be free.



OCTOBER 2021						
S	M	T	W	T	F	S
26	27	28	29	30	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

NOVEMBER 2021						
S	M	T	W	T	F	S
	1	2	3	4	5	6
7	*8	9	*10	11	12	13
14	15	*16	*17	*18	19	20
21	22	23	24	25	26	27
28	*29	30				

DECEMBER 2021						
S	M	T	W	T	F	S
			*1	2	3	4
5	6	*7	*8	*9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

Transparency

2022 Bond Program Website

<https://www.sanantonio.gov/2022bond>

- Committee Roster
- Meetings Calendar
- Meeting Documents
- Reports & Presentations



Next Steps

PROPOSED 2022-2027

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City of San Antonio

Community Bond
Committee Meetings

Starting October 27

Timeline

- **October 27 – December 16** Bond Committee Meetings
- **January 12, 2022** Bond Committee Recommended Project List
- **February 10, 2022** City Council Approval of Project List
- **May 7, 2022** Public Vote on Proposed Bond

Ethics & Meeting Guidelines

Presented by:
City Attorney's Office



Conflicts of Interest

- The City Ethics Code and Campaign Finance Code do not apply to the bond committees.
- Committee members should use their individual judgment in deciding whether to participate in a specific vote.
- Strongly recommend that members recuse themselves from a matter if they have a conflict of interest.



What is a Conflict of Interest

- A bond project that is likely to directly affect the economic interest of:
 - the committee member;
 - their parent, child, spouse or other close relative; or
 - a business in which the Committee member or a family member has an interest.
- Because the bond committees are advisory, participation will not prohibit committee members from seeking City contracts.

Unfair Advancement and Confidentiality

- A committee member should not use their official position to gain an unfair advantage or to advance a private interest, for example:
 - Promote their consulting firm.
 - Seek or obtain confidential information to support a future bid proposal.
- A committee member may not disclose confidential information gained by their service on the committee, including representing any person, group or entity before any of the committees.



Gifts

- Committee member should not accept any gift from any source that:
 - influences or rewards official conduct; or
 - the committee member knows or should know is being offered with the intent to influence official conduct

Gift Exceptions

- Items of nominal value
- Meals up to \$50, no more than \$500 total in calendar year from a single source
- Admission to training or education program if related to official duties
- Admission to events attended in a ceremonial capacity or as an official representative of city
- Gifts from friends that are in keeping with the personal (non-city) relationship

Meeting Protocols

- Tri-Chairs or Co-Chairs will preside over the meetings and use Roberts Rules as a guide to manage the meetings.
- “**Meeting**” excludes social functions, conventions, or workshops.
- “**Meeting**” can include electronic communications.

A “**Meeting**” is any deliberation between a quorum of members at which any public business is discussed or considered, or at which any formal action is taken.



Meeting Requirements

- Quorum is a simple majority of committee members.
- A quorum of the committee should be present in the room to convene a meeting.
- The committee may take action only on agenda items posted.



Open Sessions

- Committees must vote in public open session.
- Public may attend meetings.
- The Committee Chairs may allow public comment and may limit time for comments.



Drainage 101

Presented by:
Nefi Garza, P.E., Public Works Assistant Director



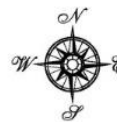


Major River Basins of Texas



LEGEND

1. Canadian
2. Red
3. Sulphur
4. Cypress
5. Sabine
6. Neches
7. Neches-Trinity
8. Trinity
9. Trinity-San Jacinto
10. San Jacinto
11. San Jacinto-Brazos
12. Brazos
13. Brazos-Colorado
14. Colorado
15. Colorado-Lavaca
16. Lavaca
17. Lavaca-Guadalupe
18. Guadalupe
19. San Antonio
20. San Antonio-Nueces
21. Nueces
22. Nueces-Rio Grande
23. Rio Grande



0 20 40 60 80 100 120 140 160 180 200 Miles

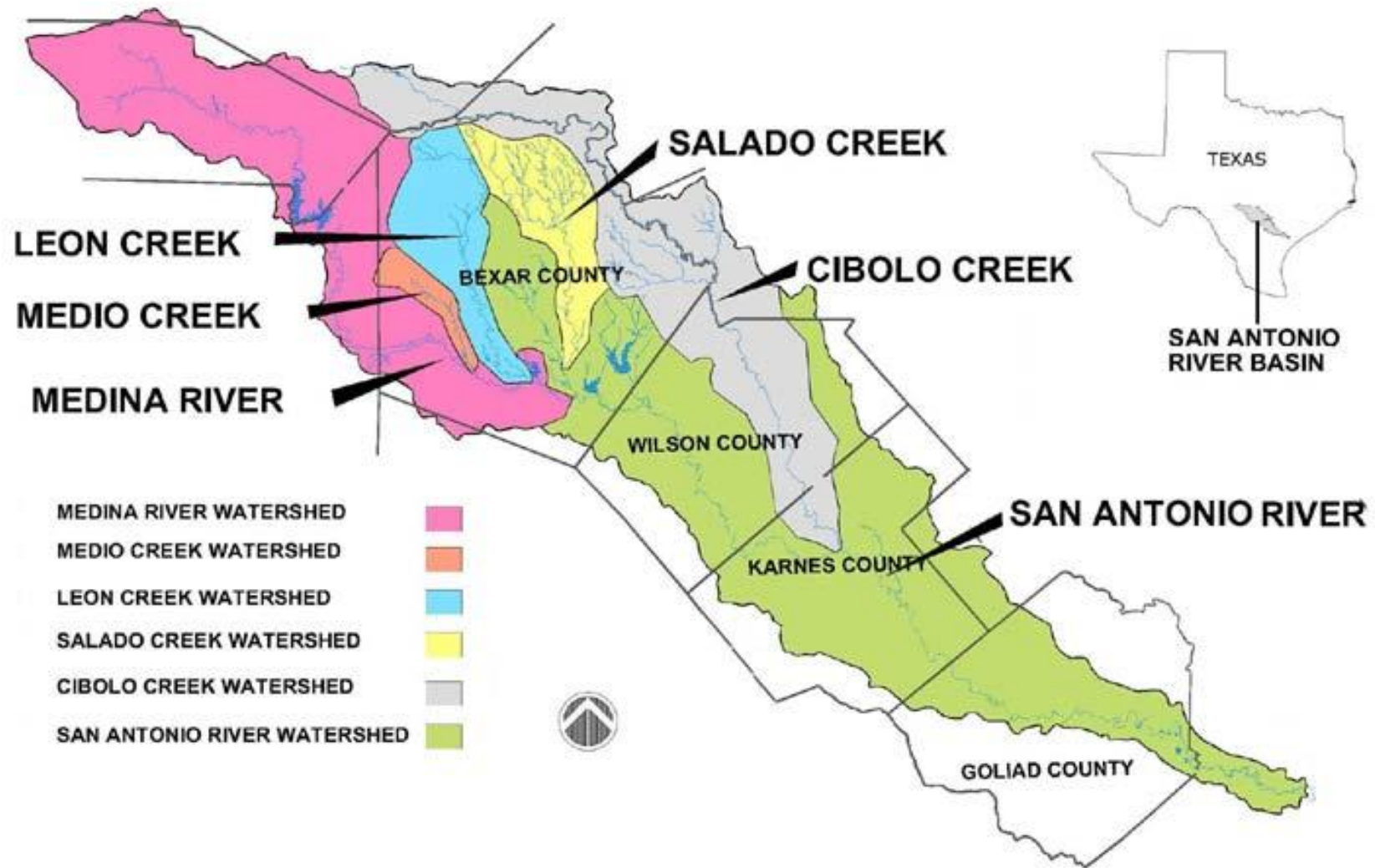
January 2003

Map prepared by Mark Bayne,
Mapping Coordinator, TWDB
(Mark.Bayne@twdb.state.tx.us)
512-936-6328

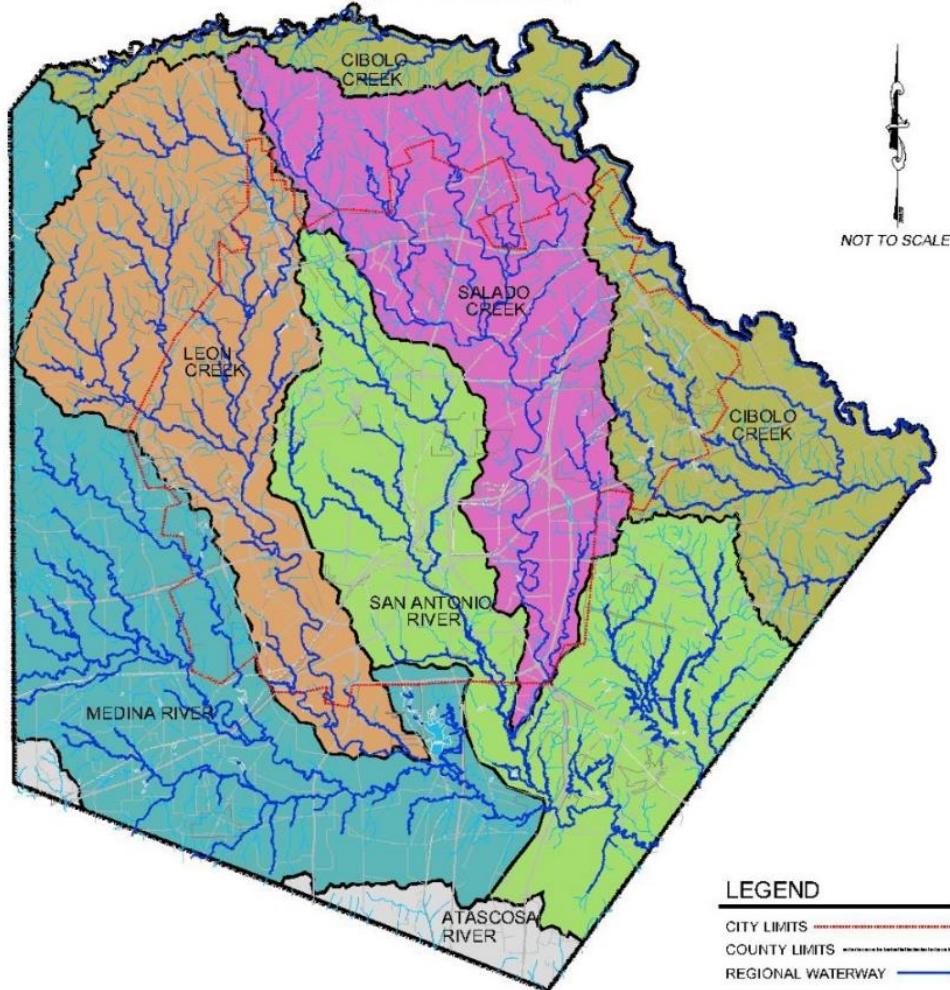
DISCLAIMER

This map was generated by the Texas Water Development Board.
No claims are made to the accuracy or completeness of the
information shown herein nor to its suitability for a particular use.
The scale and location of all mapped data are approximate.

SAN ANTONIO RIVER BASIN WATERSHEDS



BEXAR COUNTY
MAJOR WATERSHED AREAS MAP
(1.5 SQUARE MILE LIMIT)



TABULATION OF ALL REGIONAL WATERWAY (IN MILES)

LEON WATERSHED	= 177 mi.
CIBOLO WATERSHED	= 179 mi.
MEDINA WATERSHED	= 193 mi.
SALADO WATERSHED	= 152 mi.
SAN ANTONIO WATERSHED	= 146 mi.

Watershed

Area Square Miles

Cibolo Creek 204

Leon Creek 235

Medina River 290

Salado Creek 222

San Antonio River 270

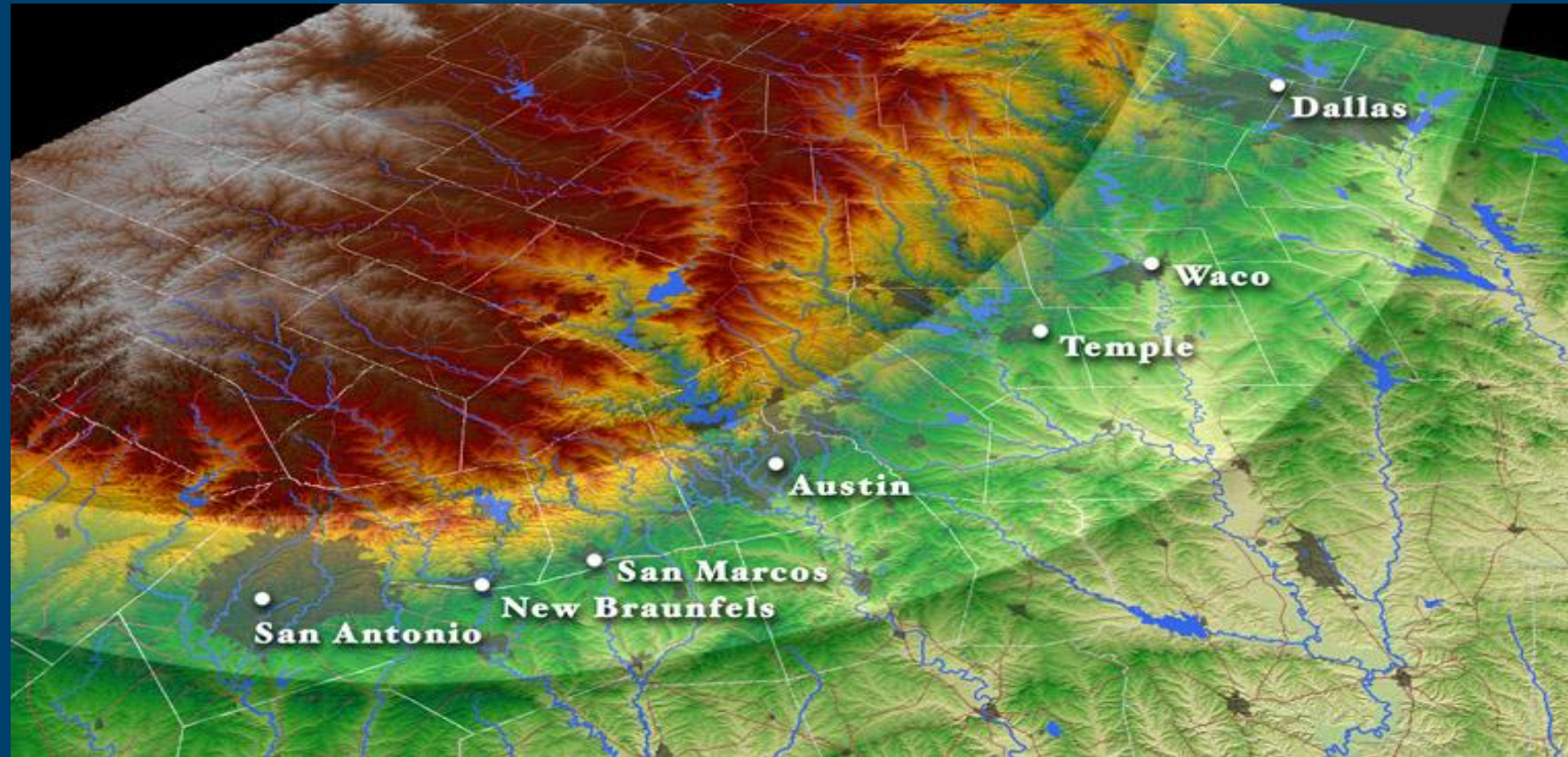
Total

1,221

Flash Flood Alley

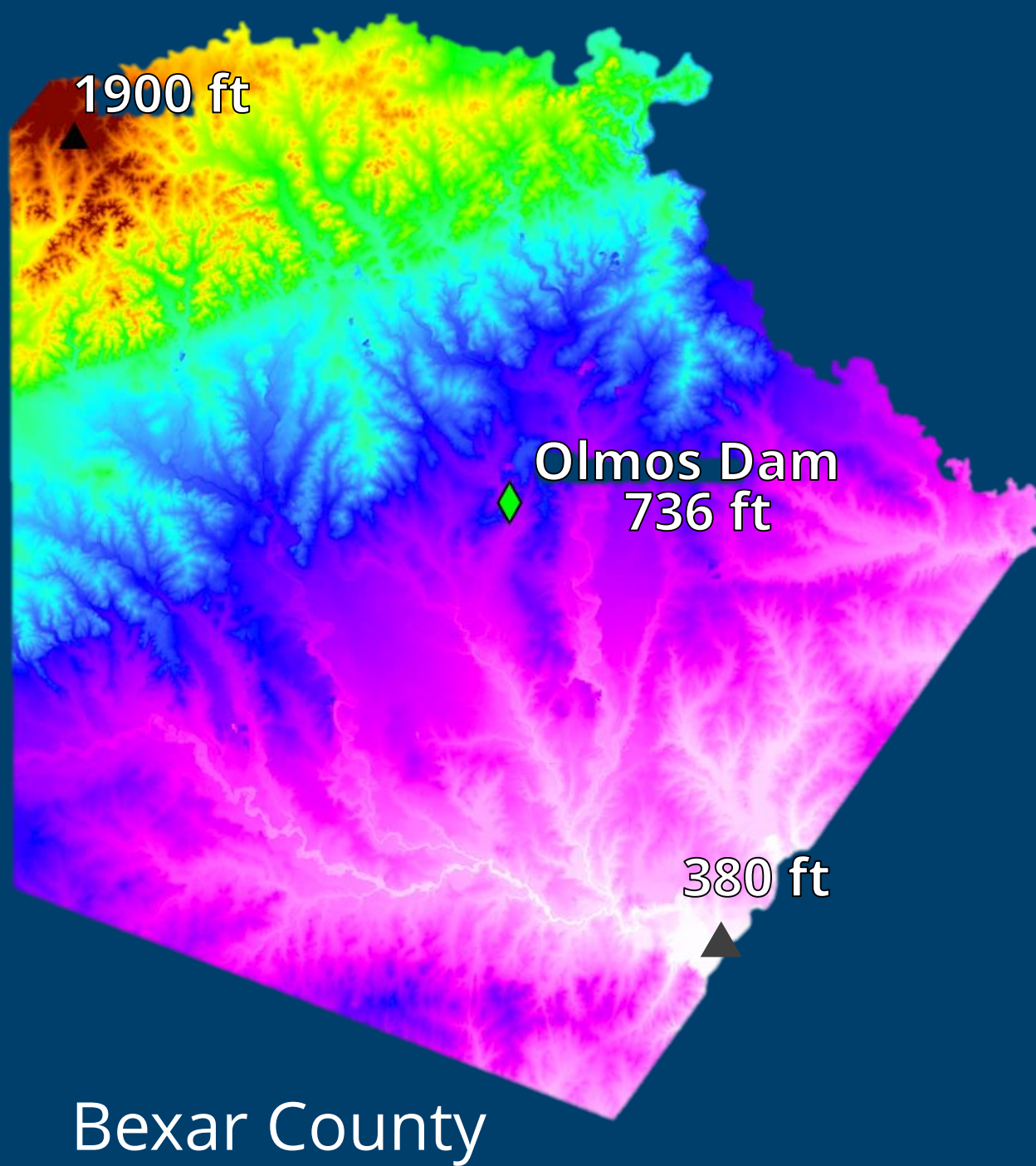
South Texas Rainfall Records

Thrall (1921):	36"/18 hrs
Ingram (1932):	36"/24 hrs
D'Hanis (1935):	22"/3 hrs
Pandale (1954):	32"/24 hrs
New Braunfels (1972):	10"/1 hr
TS Amelia (1978):	48"/52hrs
TS Claudette (1979):	43"/24 hrs
Zorn (1998):	32"/18 hrs
TS Charley (1998):	18"/4 hrs
Kerr County (2002):	42"/5 days
Harvey, Houston Area (2017):	52"/4 days



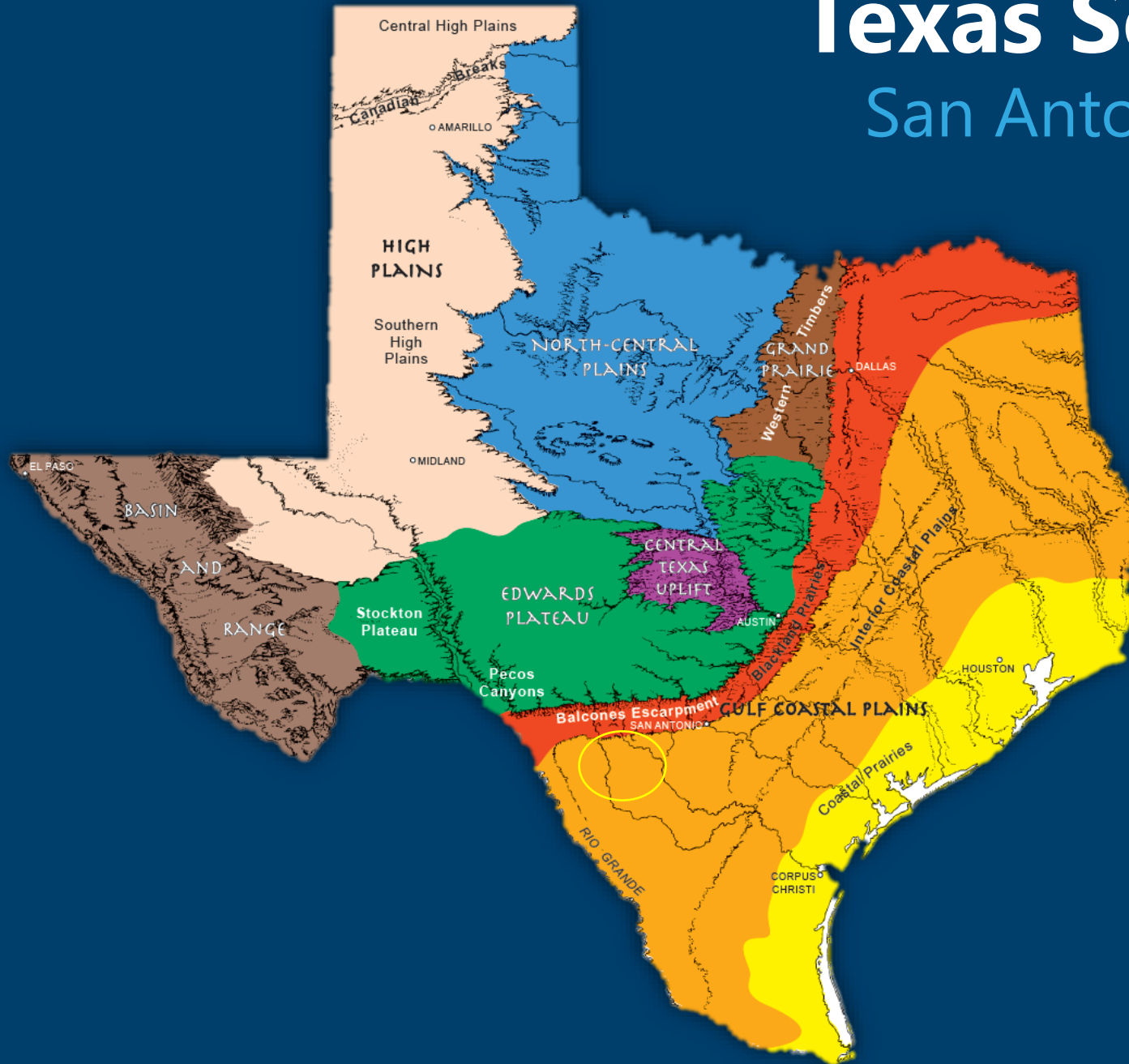
Source: <http://www.floodsafety.com/media/maps/texas/index.htm>

Elevations



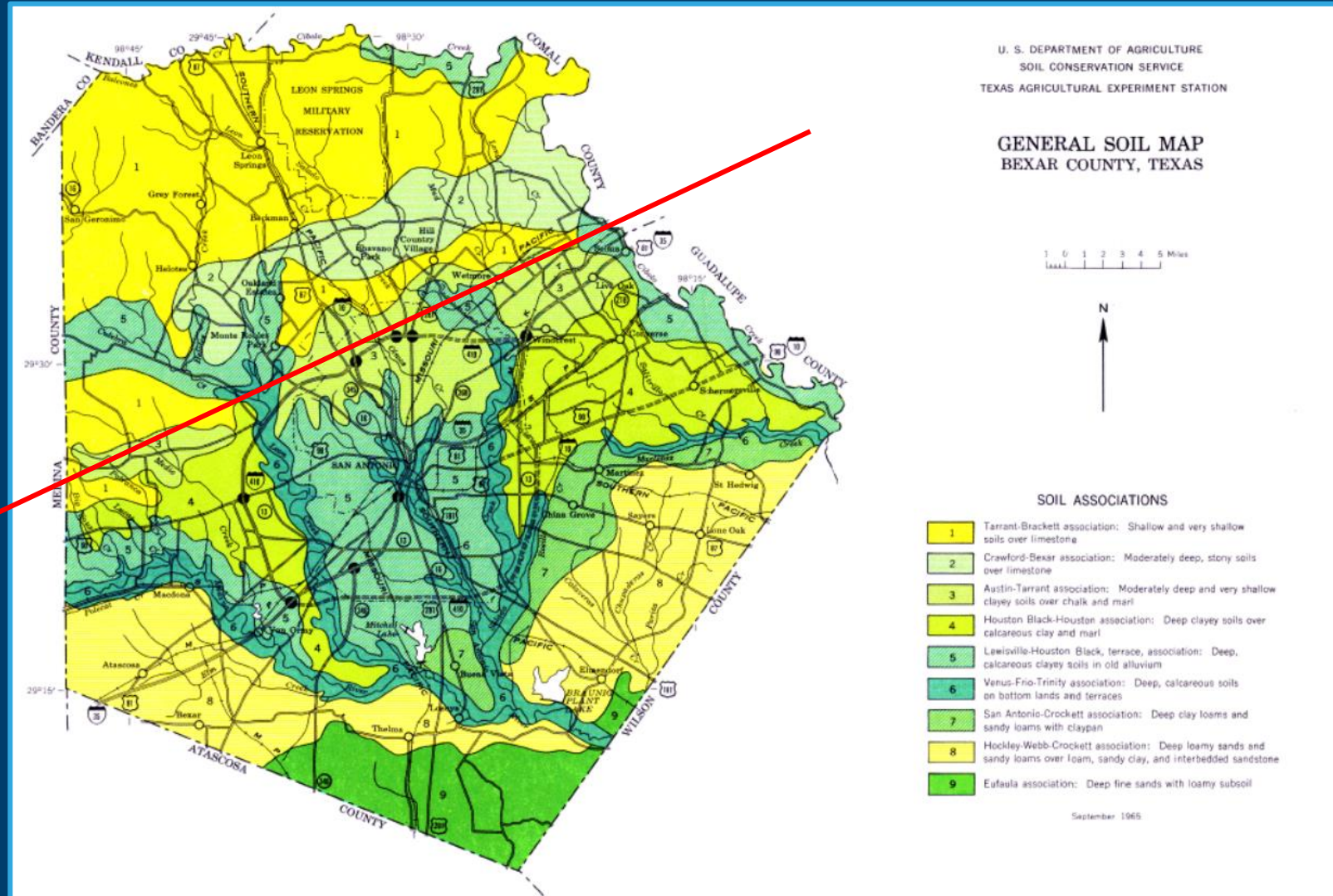
Texas Soils

San Antonio



PROVINCE	MAX. ELEV. (ft)	MIN. ELEV. (ft)	TOPOGRAPHY
Gulf Coastal Plains			
Coastal Prairies	300	0	Nearly flat prairie, <1 ft/mi to Gulf
Interior Coastal Plains	800	300	Parallel ridges (questas) and valleys
Blackland Prairies	1000	450	Low rolling terrain
Grand Prairie	1250	450	Low stairstep hills west; plains east
Edwards Plateau			
Principal	3000	450	Flat upper surface with box canyons
Pecos Canyons	2000	1200	Steep-walled canyons
Stockton Plateau	4200	1700	Mesa-formed terrain; highs to west
Central Texas Uplift	2000	800	Knobby plain; surrounded by questas
North-Central Plains	3000	900	Low north-south ridges (questas)
High Plains			
Central	4750	2900	Flat prairies slope east and south
Canadian Breaks	3800	2350	Highly dissected; local solution valleys
Southern	3800	2200	Flat; many playas; local dune fields
Basin and Range	8750	1700	North-south mountains and basins

Bexar County Soils



Flash Flood Alley



July 2002: US - 281 Facing South at Quarry

Flash Flood Alley



July 2002: IH-10 Facing North at Rim/Fiesta Texas



Background

■ “Flash Flood Alley”

■ United States

- *“Flash flooding is the leading cause of weather related deaths in the US (approximately 200 deaths per year)...over 50% of flood-related drowning's are vehicle related” – Center for Disease Control*

■ Texas

- 76% of flood deaths vehicle related
- Most flood deaths in past 36 years
- Ranked 1st in deaths 21 out of 36 years

■ San Antonio/Bexar County

- October 1998: 12” / 24 hrs
- July 2002: 16” / 6 days
- May 2013: 12” / 24 hrs

■ BRWM Partnership

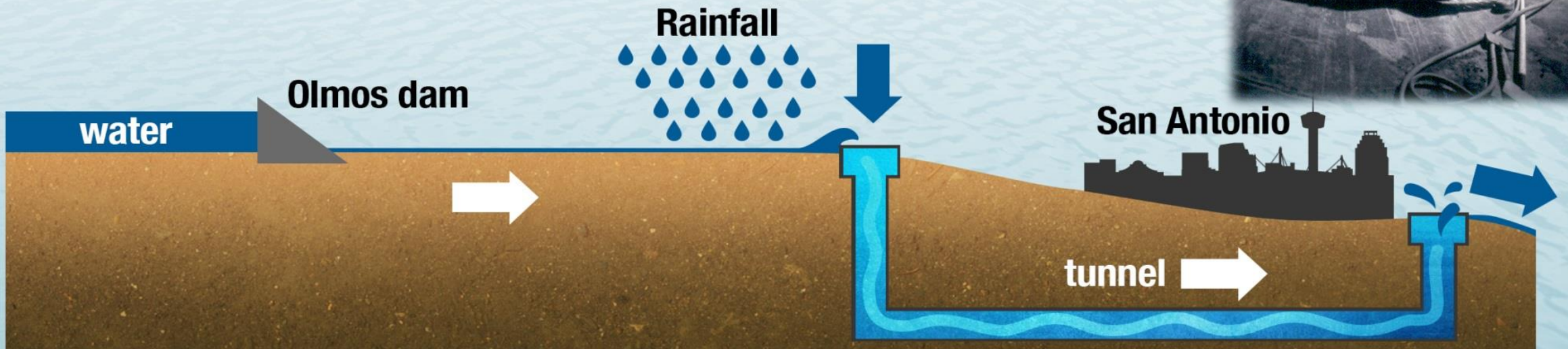
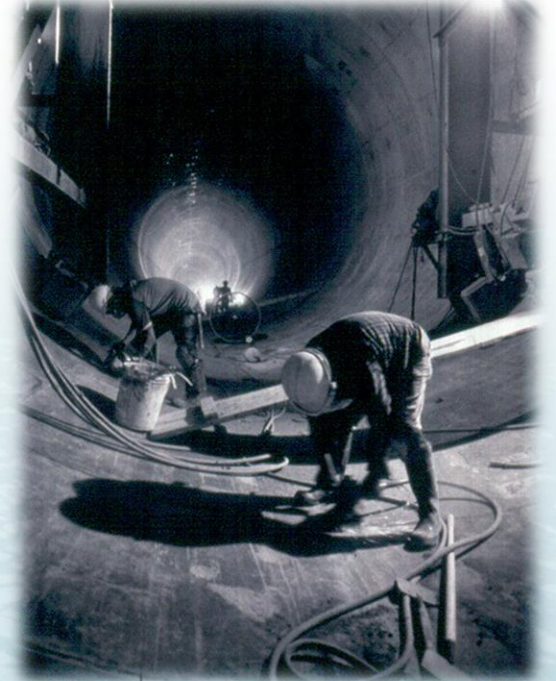
- Bexar County, San Antonio, SARA
- 19 Suburban Cities

Flood Protection



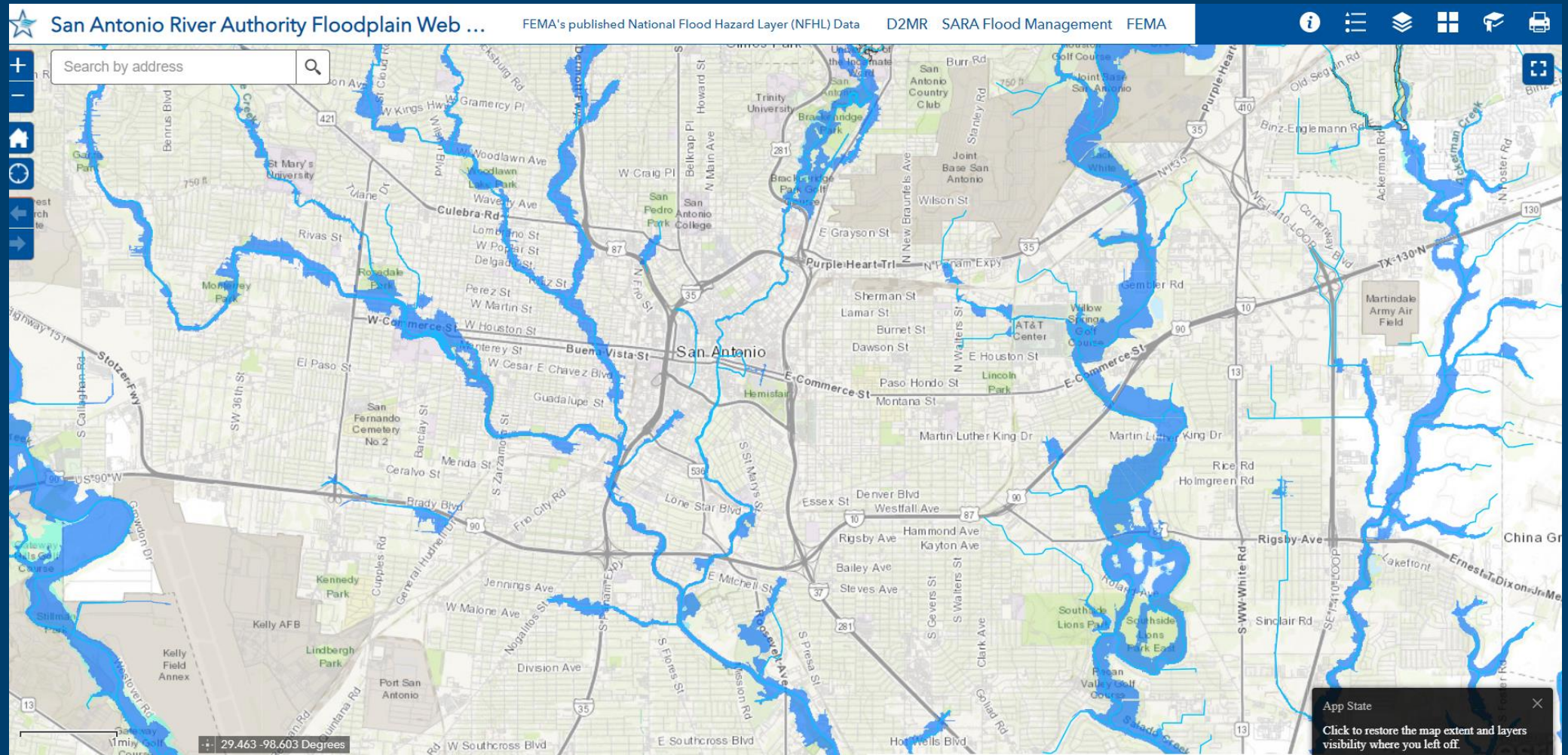
Flood Management

1. Detention
2. Conveyance
3. Diversion
4. Removal (buy outs)



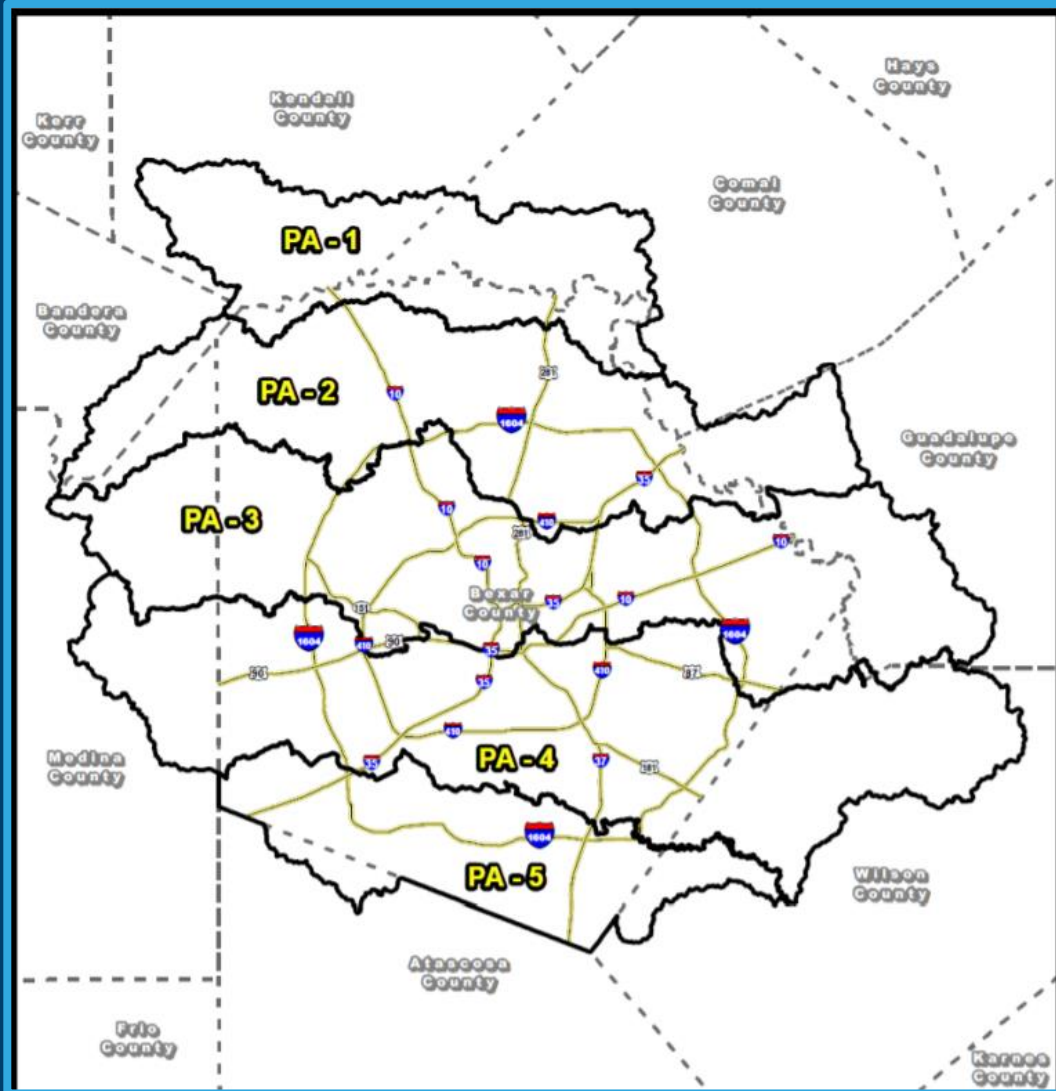
FEMA Floodplain Maps

<https://sara-tx.maps.arcgis.com/apps/webappviewer/index.html>



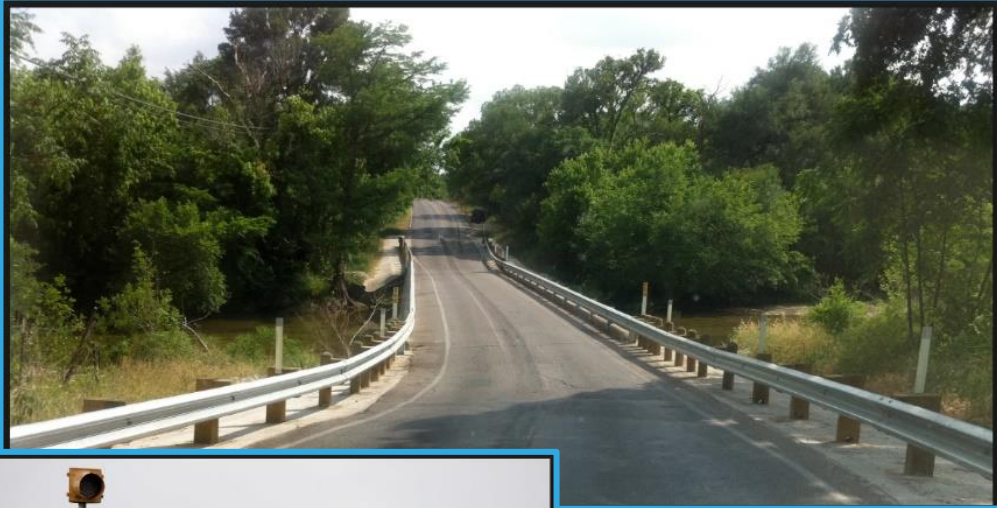
Atlas 14

Adopted April 2019



Precipitation Area	Existing Conditions	100-Year Design Depth
PA-1	10.00"	12.87"
PA-2	10.00"	12.49"
PA-3	10.00"	11.97"
PA-4	10.00"	11.50"
PA-5	10.00"	11.15"

Focus on Low Water Crossings



San Antonio Fire Department personnel rescue a man trapped on top of his submerged vehicle at a low water crossing on Pinn Road by SH 151, Monday, August 7, 2017. (Jerry Lara/San Antonio Express-News)

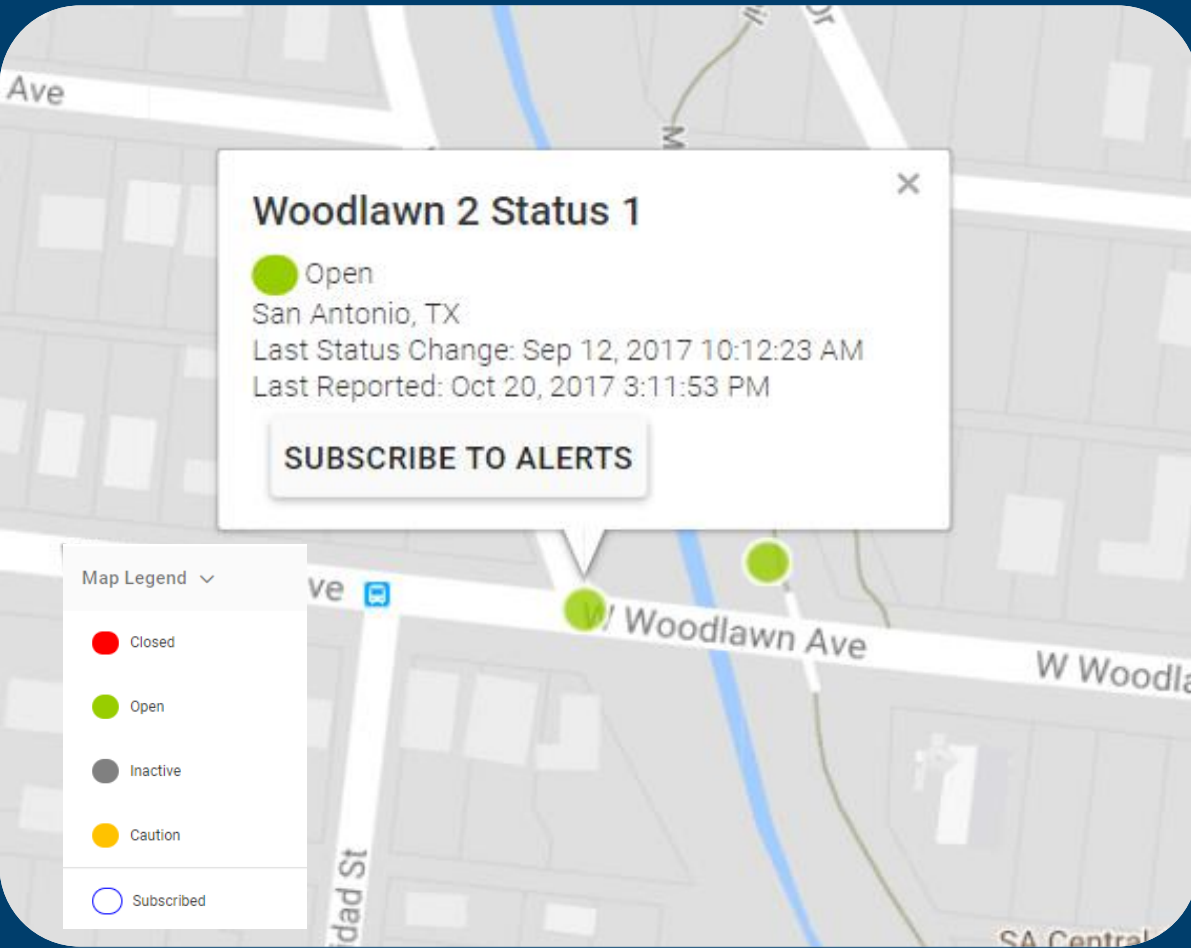
Bexar Flood



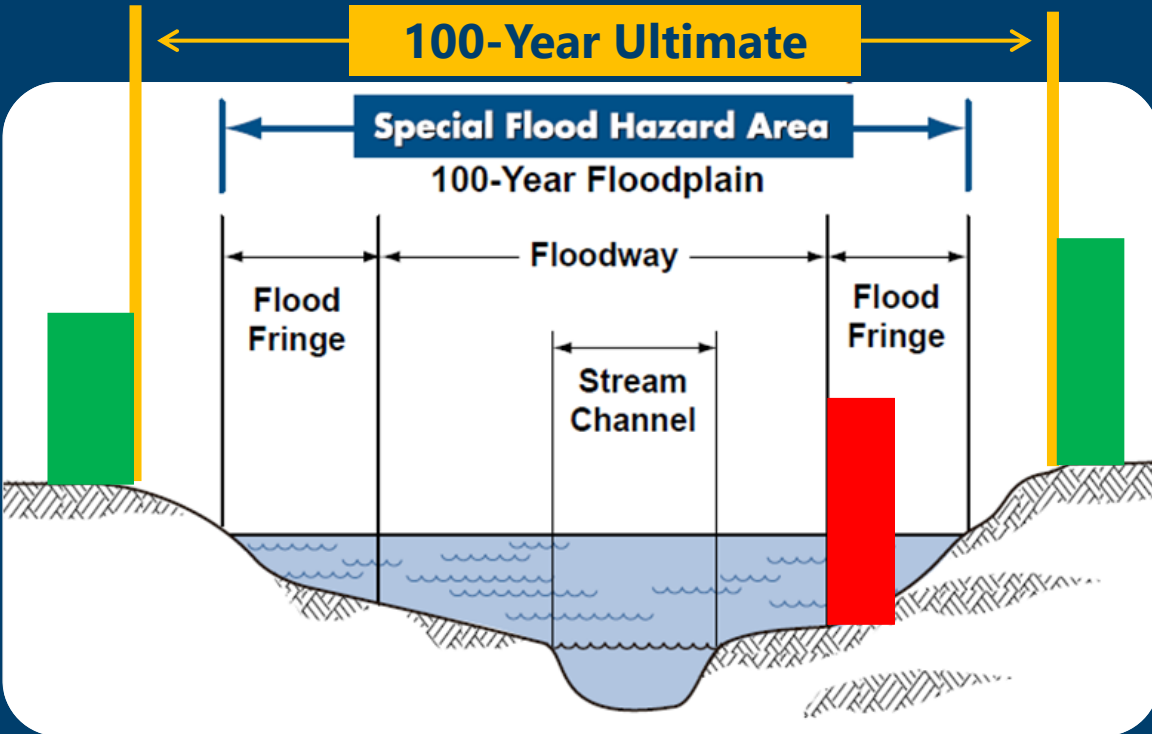
BEXARflood

providing current flood information and emergency road closures

Bexarflood.org





Floodplain Regulations: Higher Standards



Flood Zones (FEMA NFHL)

FEMA Flood Zones

-  1% Annual Chance Flood Risk
-  1% Annual Chance Flood Risk (Future)

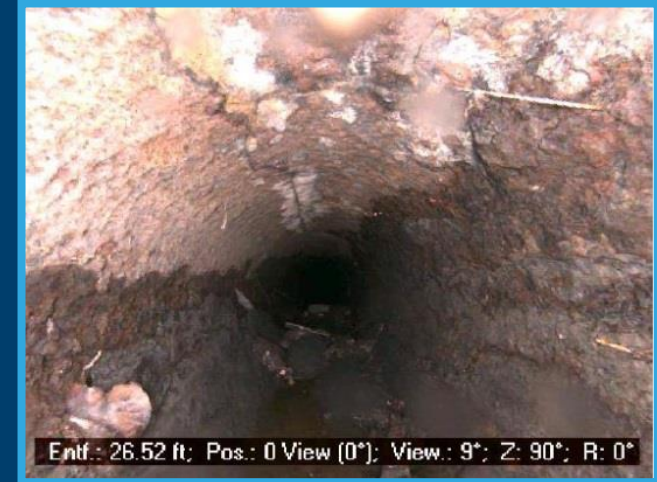
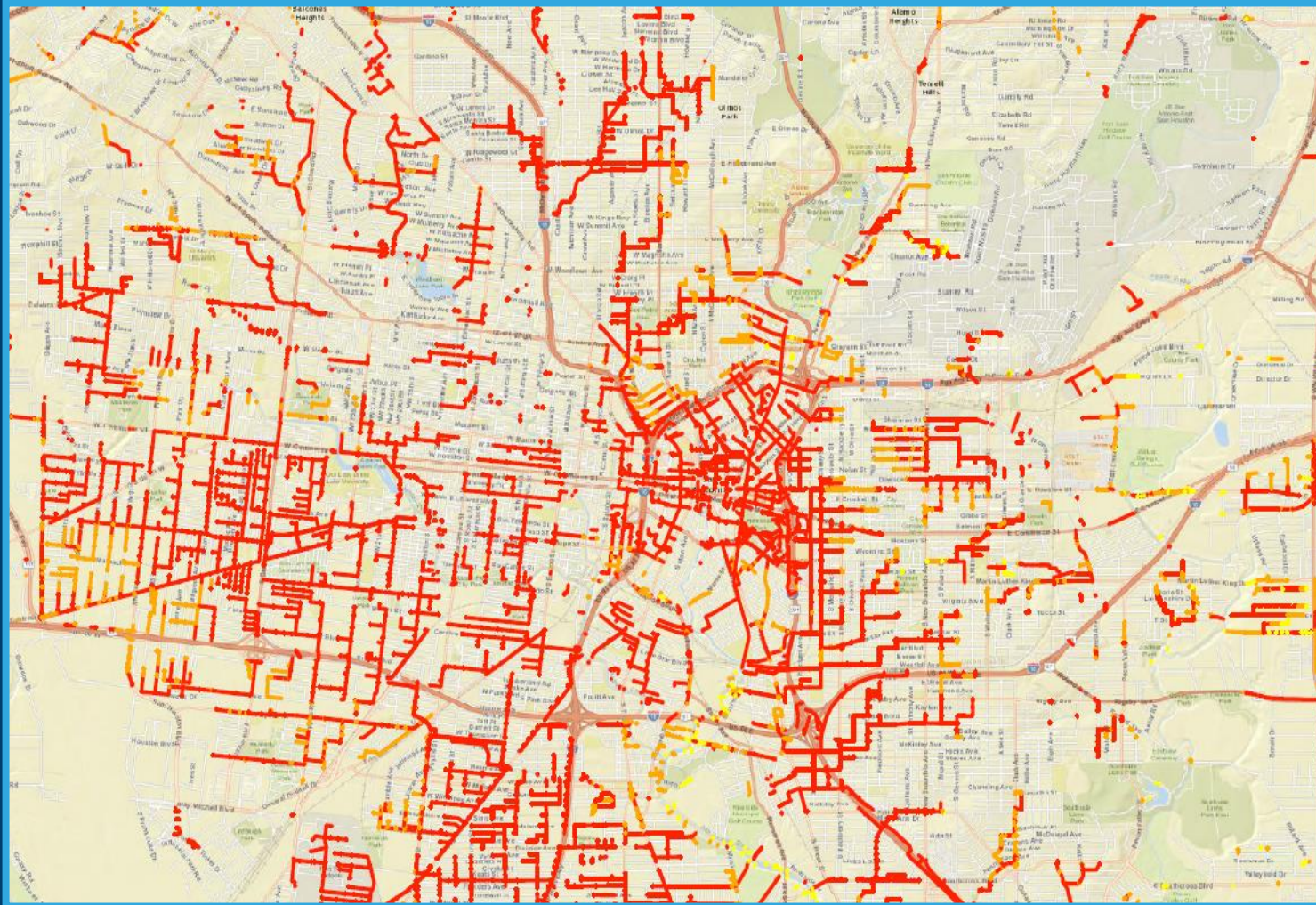


Flood Resiliency

Facility	Percentage Outside Floodplain	Out	In
Clinics	93%	195	15
Communication Towers	83%	440	92
Daycares	91%	156	15
Gas Stations	93%	231	18
Grocery Stores	89%	124	16
Hospitals	87%	108	16
Retirement Centers	87%	94	14
Vet Clinics	84%	38	7



Televising (Condition Assessment)



N. Alamo & 9th Street

Risk1 (Peak COF x Peak LOF)

Risk (By Grading)

- 1
- 2
- 3
- 4
- 5

Storm Water Inventory

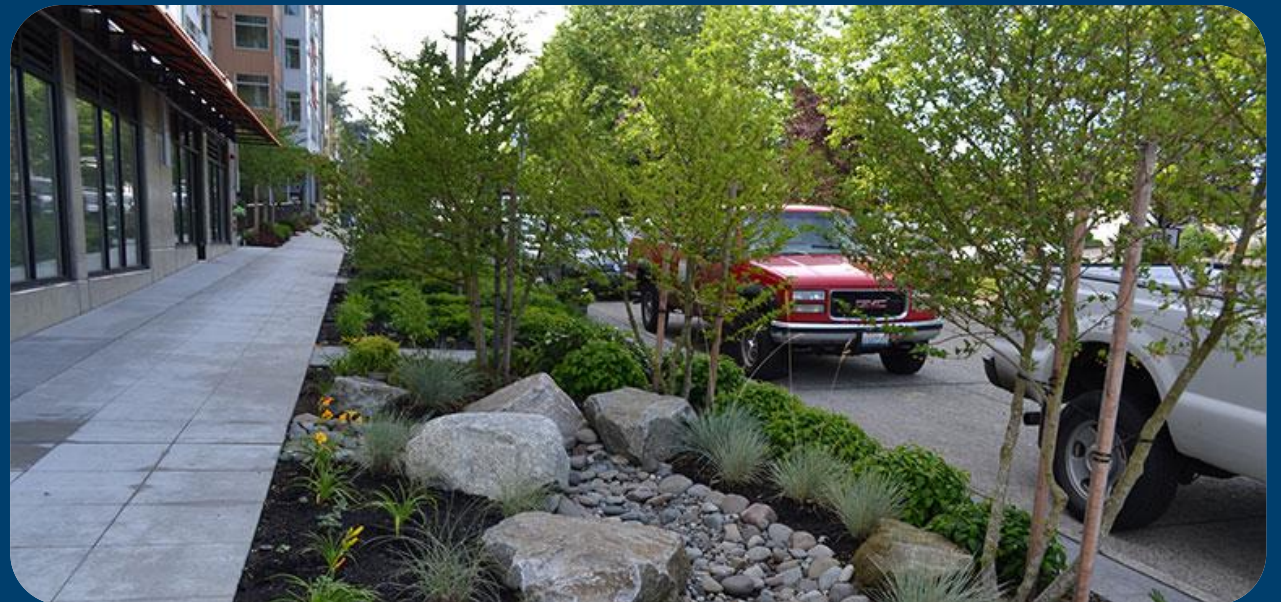
Asset	Citywide
Channels	926 Miles
Natural Creeks	369 Miles
FEMA 100-Year Flood Plain	56 Square Miles
Underground	800 Miles
Streets	4,081 Miles

What is LID?

The term *low impact development* (LID) refers to **systems and practices** that use or mimic natural processes that result in the infiltration, evapotranspiration or use of storm water in order **to protect water quality** and associated aquatic habitat. There are many practices that have been used to adhere to these principles such as:

- Environmental Protection Agency (EPA)

- Bio-retention facilities
- Rain gardens
- Vegetated rooftops
- Rain barrels
- Permeable pavements



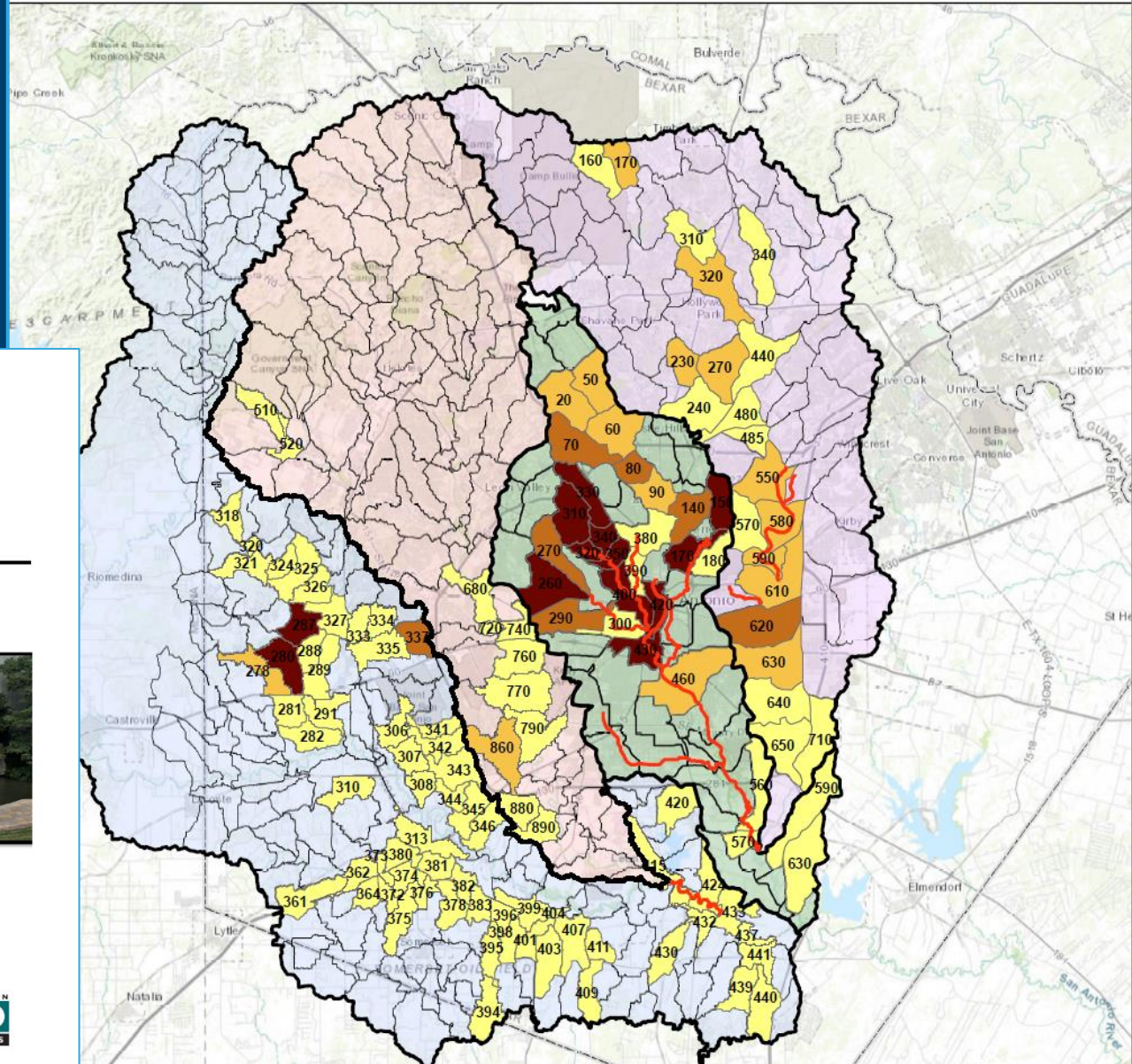
San Antonio

Water Quality Vision Document

Completed in May 2018

BMP Implementation for Priority Subwatersheds

City of San Antonio
Water Quality Vision Document
San Antonio Bexar County, Texas



May 8, 2019

CITY OF SAN ANTONIO

Water Quality:
Vision Document



PREPARED FOR:
THE CITY OF SAN ANTONIO
114 W. COMMERCE STREET
SAN ANTONIO, TX 78205

SAN ANTONIO RIVER AUTHORITY
100 E. GUENTHER
SAN ANTONIO, TX 78204



Staff Recommendations

Presented by:
Razi Hosseini, Public Works Director/City Engineer

PROPOSED 2022-2027

BOND

PROGRAM

City of San Antonio



Guiding Principles



Connectivity

Projects will enhance access to opportunities and align with city adopted plans.



Public Health & Safety

Projects will enhance public health, wellness and safe connectivity to community destinations. Projects will also promote sustainable green infrastructure.



Resiliency

Projects will improve existing conditions to protect, adapt and respond to natural and human-made hazards.



Equity

Projects will support infrastructure improvements within communities of color and low-income communities.



Council Input

Drainage & Flood Control



\$162
MILLION

19
PROJECTS

- **\$159 Million** District Projects
- **\$2.4 Million** Public Art (1.5%)

Drainage & Flood Control

Recommending projects to improve or develop **storm drain systems** to include **detention basins, channels, elimination of low water crossings** and **other drainage projects** in coordination with the Bexar Regional Watershed Management Program.

- Underground stormwater drainage
- Channels
- Water detention

Leverage Storm Water Regional Funds

\$38
MILLION

Total of \$188 Million
For Drainage Improvements

2021 Hazard Mitigation Plan

\$80
MILLION

For Flood Mitigation
Drainage Projects

Barbara Drive Phase 3

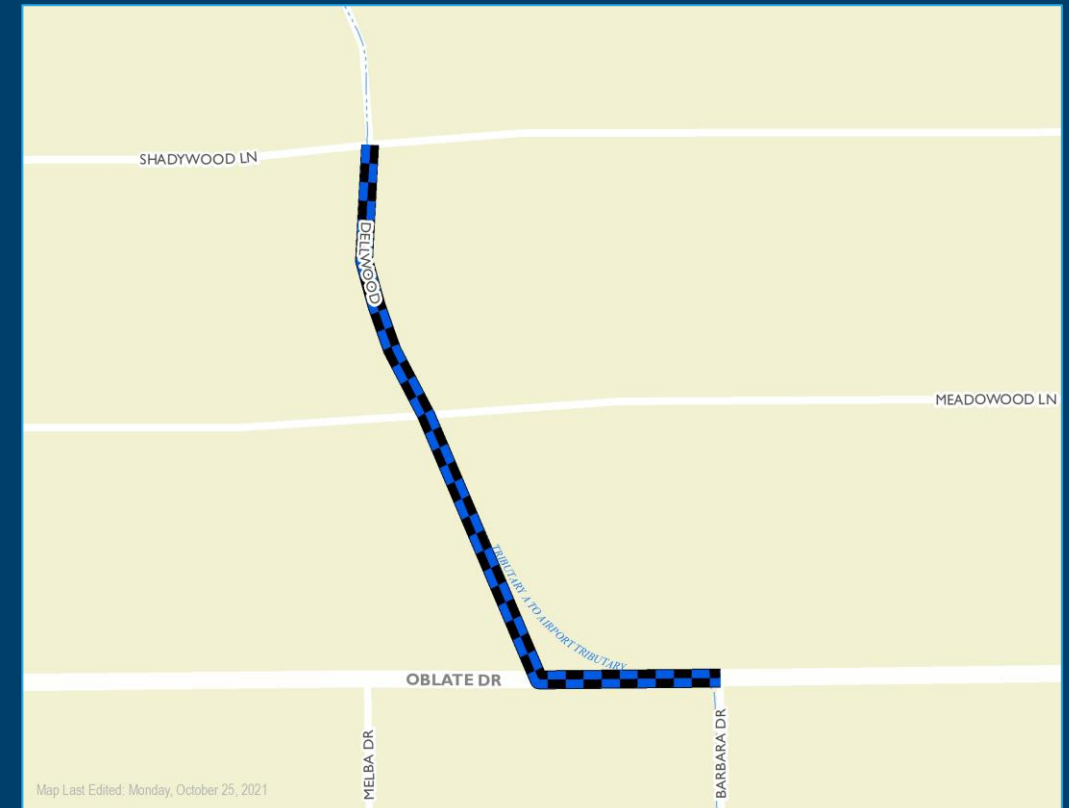
(Dellwood Drive and Shadywood Lane to Oblate Drive and Barbara Drive)

\$5.43 M 2022 Bond Drainage

\$8.60 M SW Regional

\$14.03 Million

Project continuation includes proposed upgrades to undersized existing storm drain system and associated reconstruction of the street and curb. Proposed improvements will reduce the 100-year floodplain.



Elmira

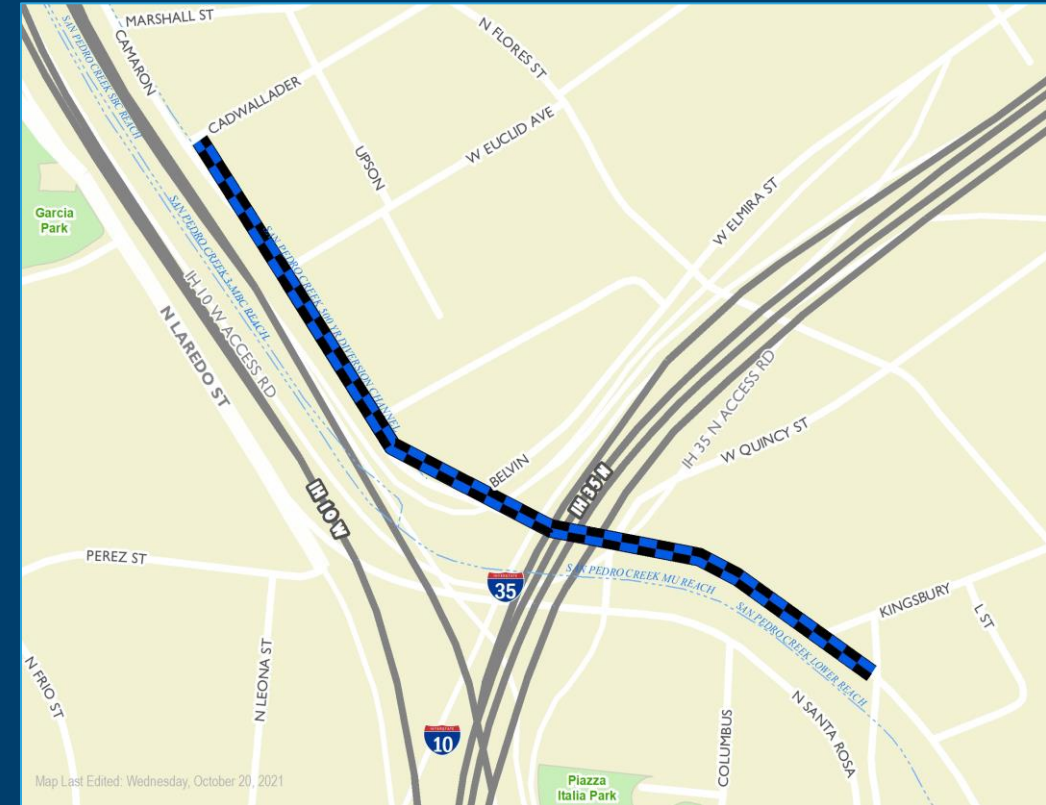
(Cameron St. from Cadwallader to Santa Rosa St.)

\$6.05 M 2022 Bond Drainage

\$6.05 M SW Regional

\$12.1 Million

A hazard mitigation plan project to install an underground bypass storm drain system, proposed upgrades to undersized existing storm drain system and associated reconstruction of the street, curbs, and driveways.



Peggy Drive Area Drainage Improvements (Eastgate Subdivision)

\$20 M 2022 Bond Drainage

\$20 Million

Regrade existing earthen channel and installation of an underground storm drain system and associated reconstruction of streets with curbs, sidewalks, and driveway approaches.



Brookside Outfall (Esma Phase 2)

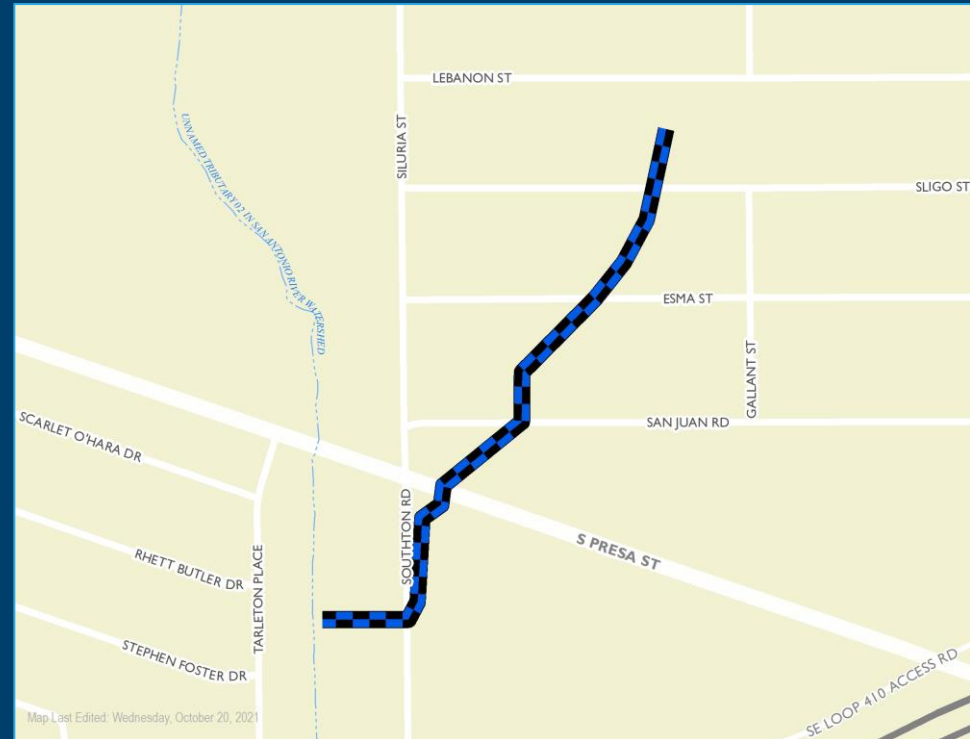
(Lebanon St to San Antonio River)

\$4.15 M 2022 Bond Drainage

\$4.15 M SW Regional

\$8.3 Million

Continuation and hazard mitigation plan project to provide channel improvements, culvert replacements, and associated reconstruction of streets with curbs and driveway approaches.



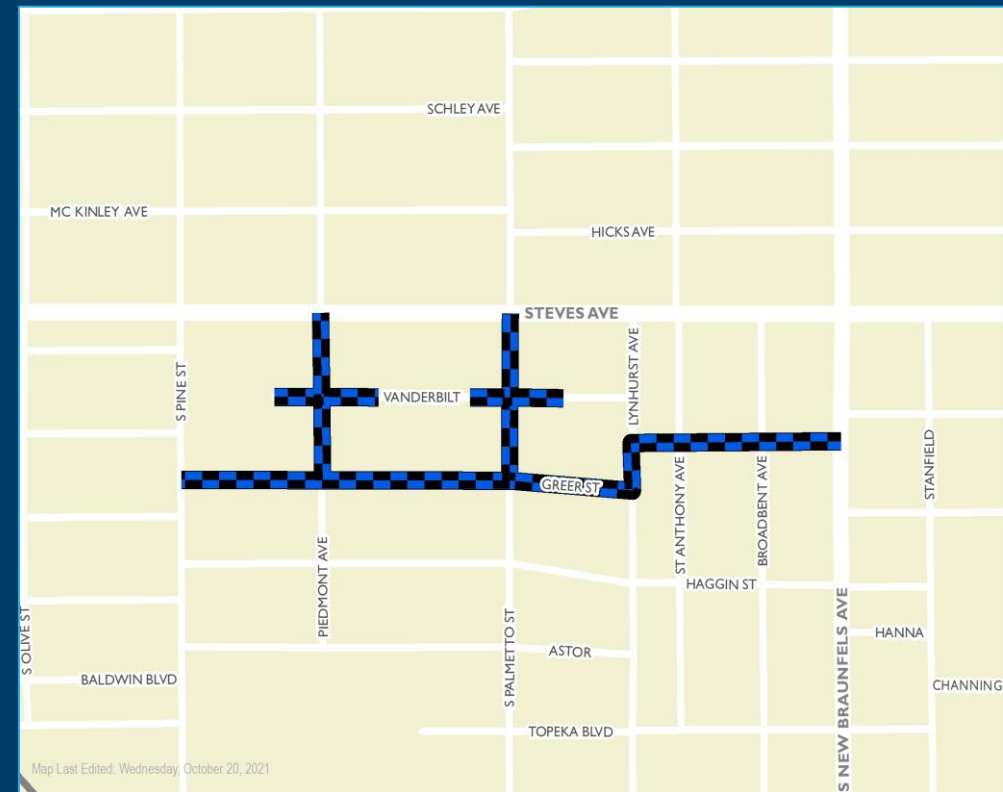
S. Pine Phase 2

(Greer St, Vanderbilt St, S. Palmetto St, and Piedmont Ave)

\$11 M 2022 Bond Drainage

\$11 Million

Continuation project to install an underground storm drain system and reconstruction of the street, curbs, driveways and sidewalks.



Valley Hi Area Drainage

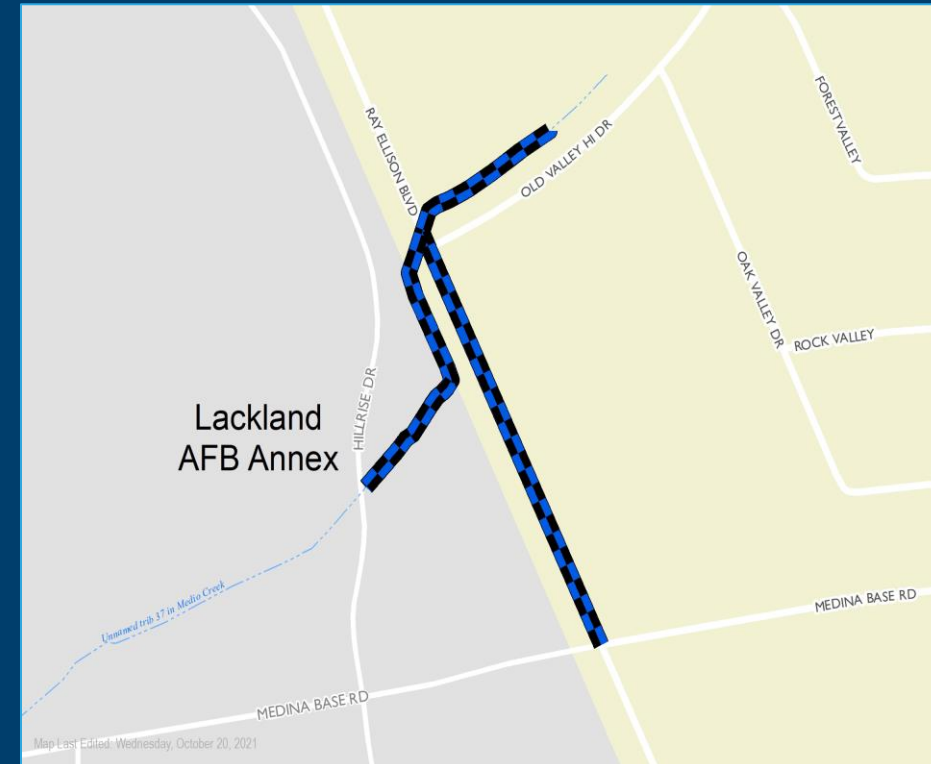
(Ray Ellison from Medina Base Road to Old Valley Hi Drive)

\$5.7 M 2022 Bond Drainage

\$5.7 M SW Regional

\$11.4 Million

Provide for the installation of an underground storm drain system on Ray Ellison from Medina Base Road to Old Valley Hi Drive, upgrades to two low water crossing culverts, and reconstruction of existing roadside earthen ditches, as well as reconstruction of the streets and driveways.



Marbach Road Area Drainage Improvement (IH-410 to Horal)

\$15.8 M 2022 Bond Drainage

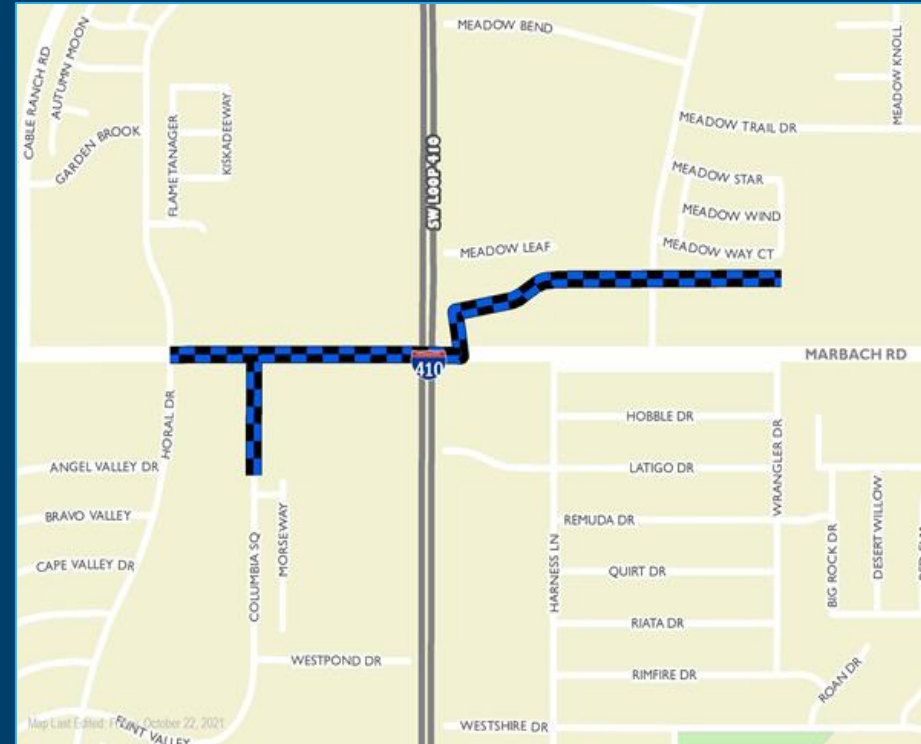
\$15.0 M 2022 Bond Street

\$30.8 Million

A hazard mitigation plan project to upgrade to undersized existing storm drain system, construction of medians and associated reconstruction of the street, curb, driveways and sidewalks.



Photo courtesy of My SA News



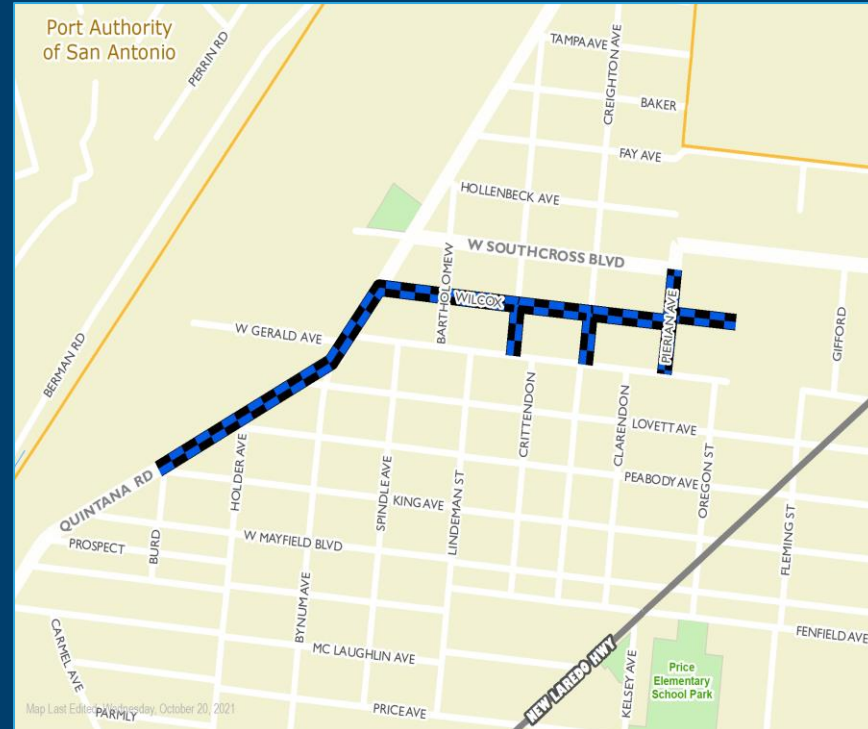
Wilcox Area Drainage Improvements

(Quintana to Dead End)

\$15.4 M 2022 Bond Drainage

\$15.4 Million

Provide for installation of underground storm drain system and associated reconstruction of the street.



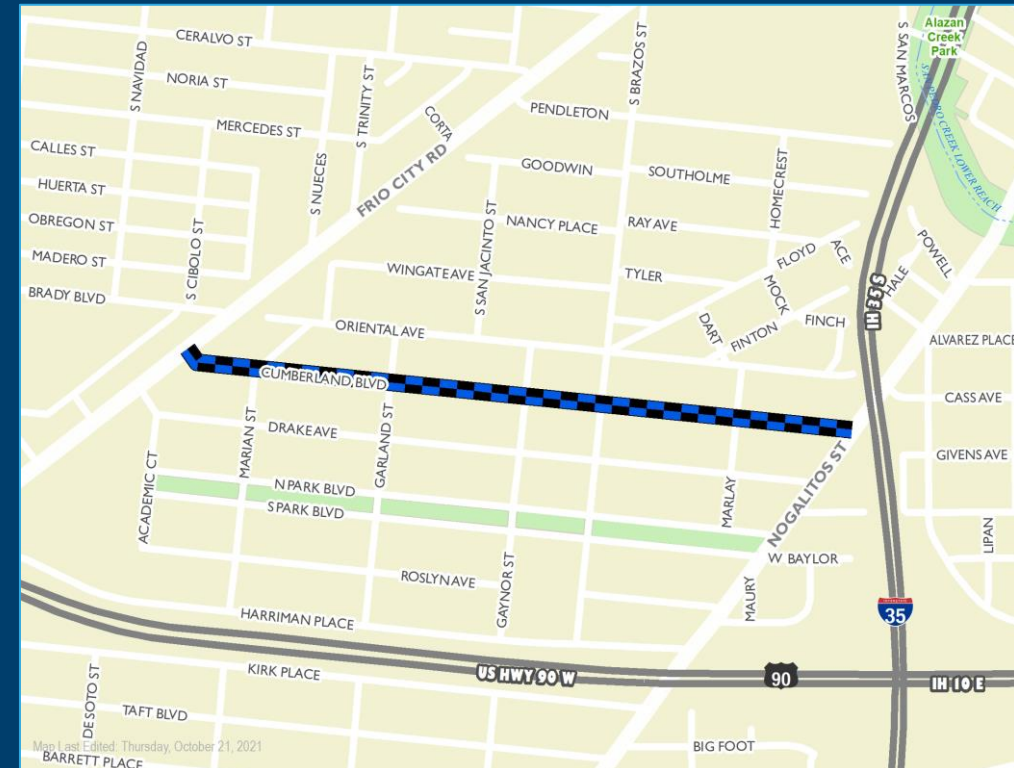
Cumberland Area Drainage Improvement

(Nogalitos to Frio City Road)

\$11.3 M 2022 Bond Drainage

\$11.3 Million

Project will reconstruct Cumberland from Nogalitos to Frio City Road and install an underground drainage system including curbs, sidewalks and driveway approaches where necessary.



Lower French Creek Improvements

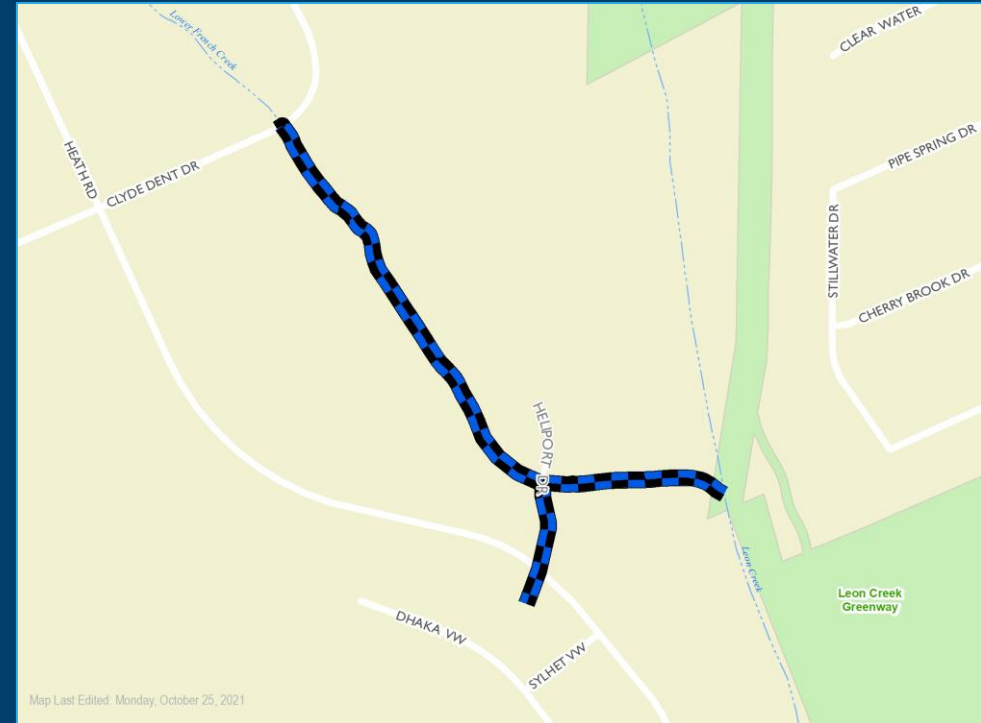
(Low Bid Ln to Leon Creek)

\$6.5 M 2022 Bond Drainage

\$6.5 M SW Regional

\$13 Million

A hazard mitigation plan project to upgrade low water crossings, driveway culverts and channel improvements to increase conveyance for French Creek.



Seeling Drainage Improvements Phase 4

(Lowery Drive to St. Cloud and Placid Drive from Sage to Pardo)

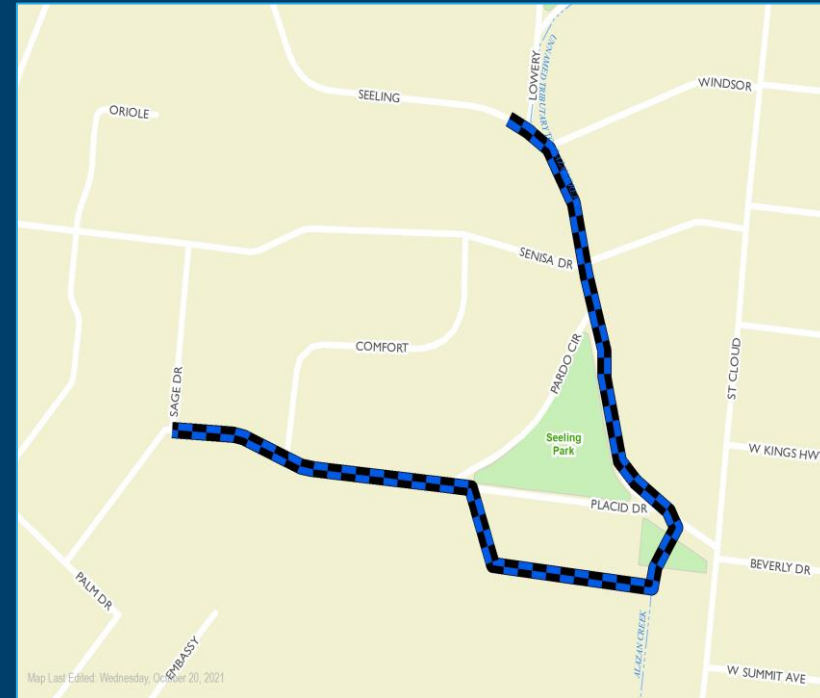
\$7.88 M 2022 Bond Drainage

\$6.85 M SW Regional

\$10.00 M Previously Committed Funds
(Bexar County & Regional)

\$24.73 Million

A continuation and hazard mitigation plan project to install an underground storm drain system and associated street work.



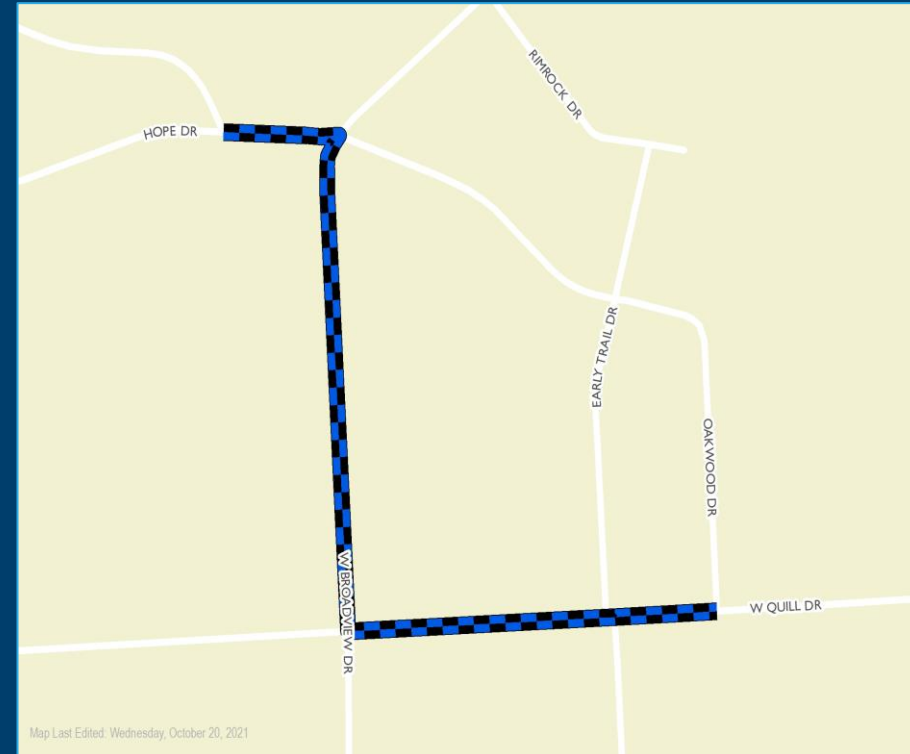
Broadview & Oakwood Drainage Improvements

Phase 1 (Broadview and W. Quill Drive)

\$10.4 M 2022 Bond Drainage

\$10.4 Million

Project provides for upgrades and bypass to undersized existing storm drain system and associated reconstruction of the street and curbs on W. Broadview Dr. from Oakwood Dr. to W. Quill Dr; and W. Quill Dr from W. Broadview Dr to the Oakwood Dr Outfall.



Gardendale

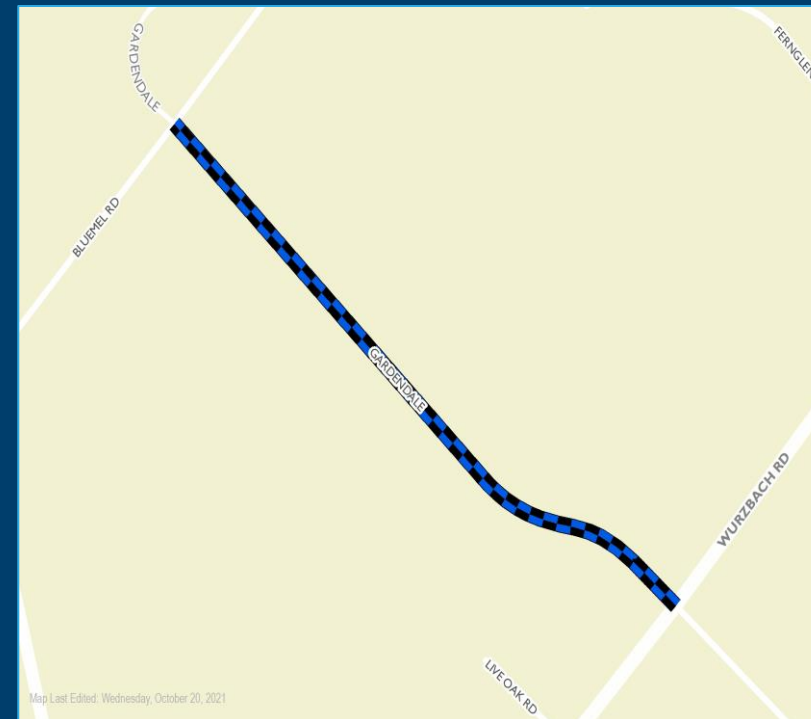
(Wurzbach to Bluemel)

\$3.00 M 2022 Bond Street

\$3.36 M 2022 Bond Drainage

\$6.36 Million

Project provides for upgrades and bypass to undersized existing storm drain system and associated reconstruction of the street and curbs on W. Broadview Dr. from Oakwood Dr. to W. Quill Dr; and W. Quill Dr from W. Broadview Dr to the Oakwood Dr Outfall.



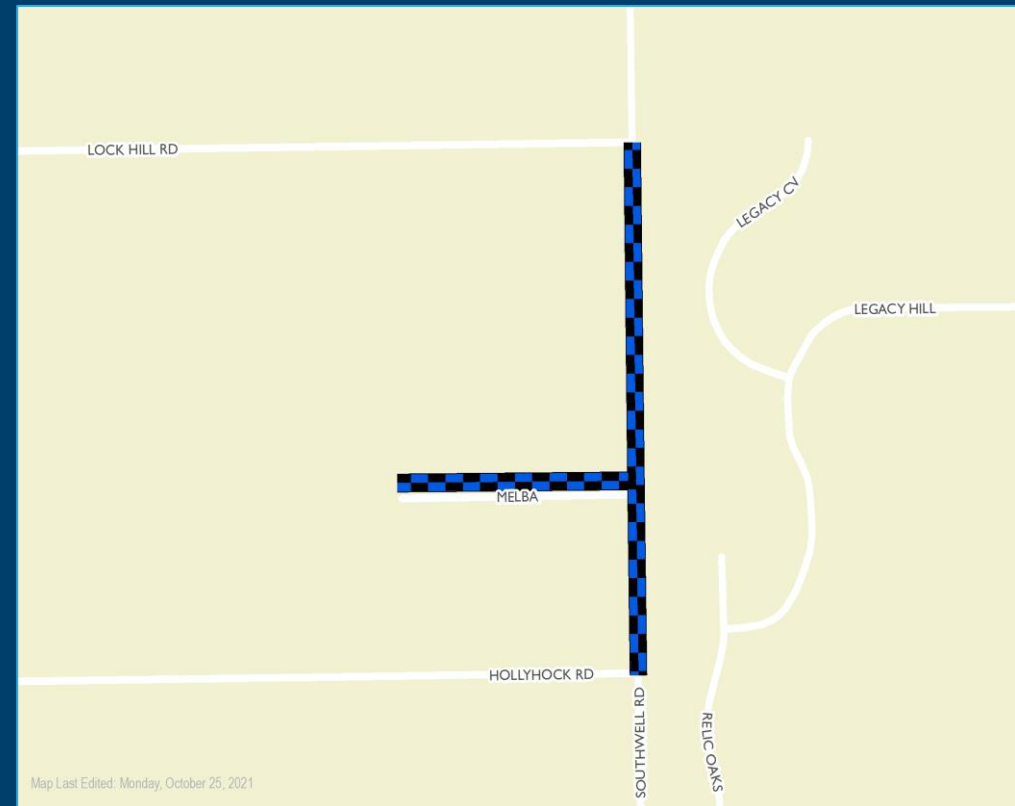
Southwell North Area Drainage Improvement

(Southwell Road and Melba)

\$5.93 M 2022 Bond Drainage

\$5.93 Million

A hazard mitigation plan project to upgrade undersized existing storm drain system and construction of an earthen channel outfall to accept runoff, as well as reconstruction of street and driveways.

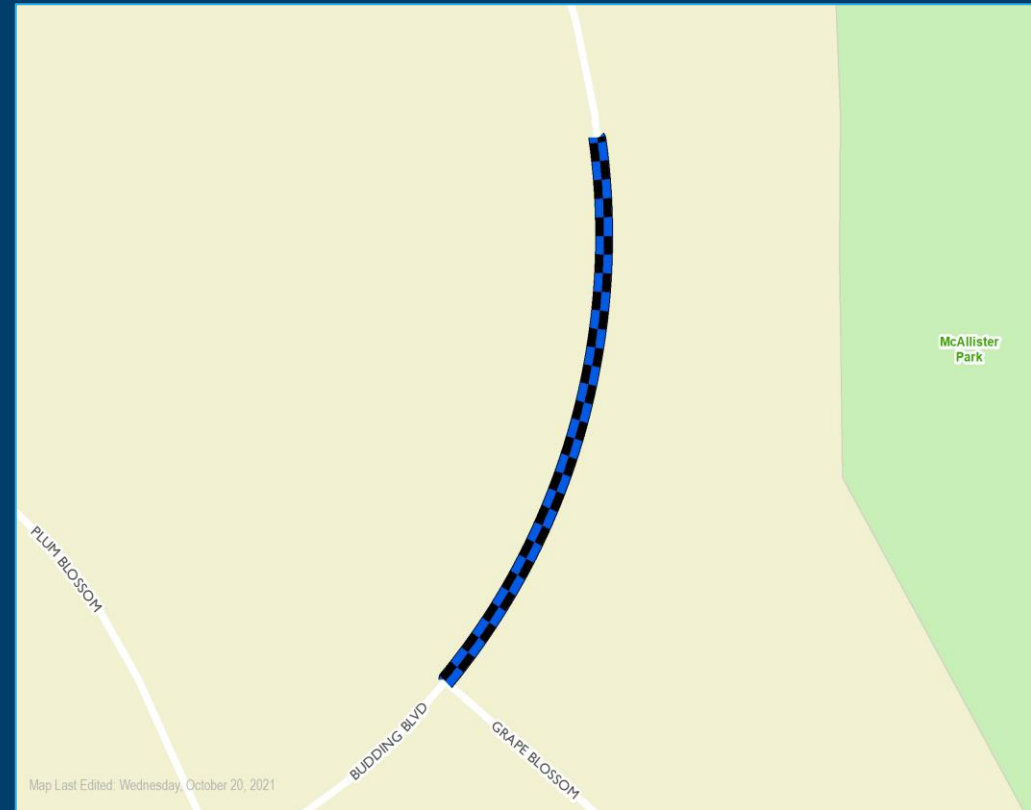


Budding Culvert Replacement (North of Grape Blossom)

\$1.7 M 2022 Bond Drainage

\$1.7 Million

Upgrade low water crossing for channel conveyance and erosion control.



Evans Road Drainage Improvements

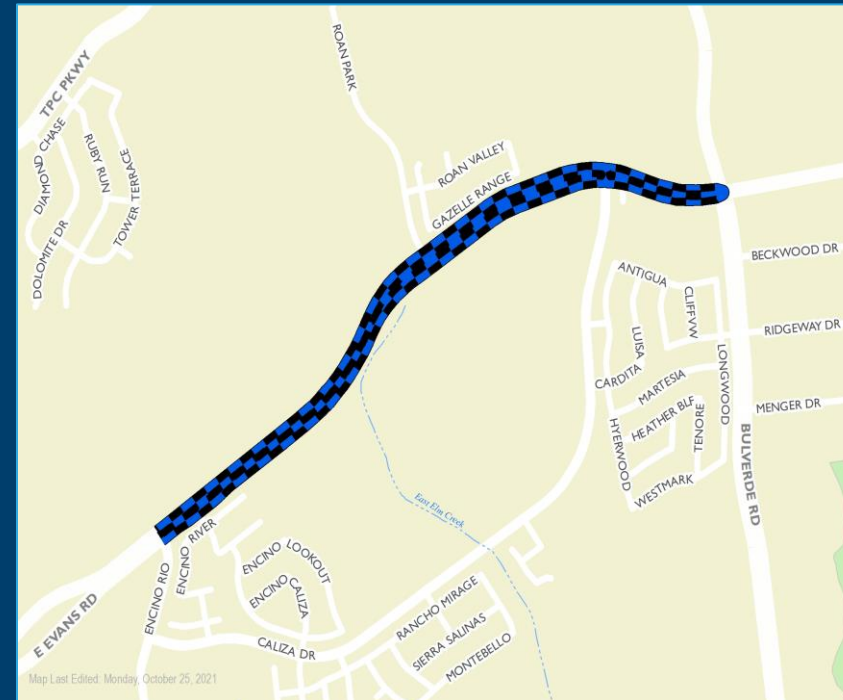
(Encino Rio to Bulverde Road)

\$19.5 M 2022 Bond Streets

\$10.0 M 2022 Bond Drainage

\$29.5 Million

Proposed upgrades to undersized existing storm drain system and associated reconstruction of the street and curb.



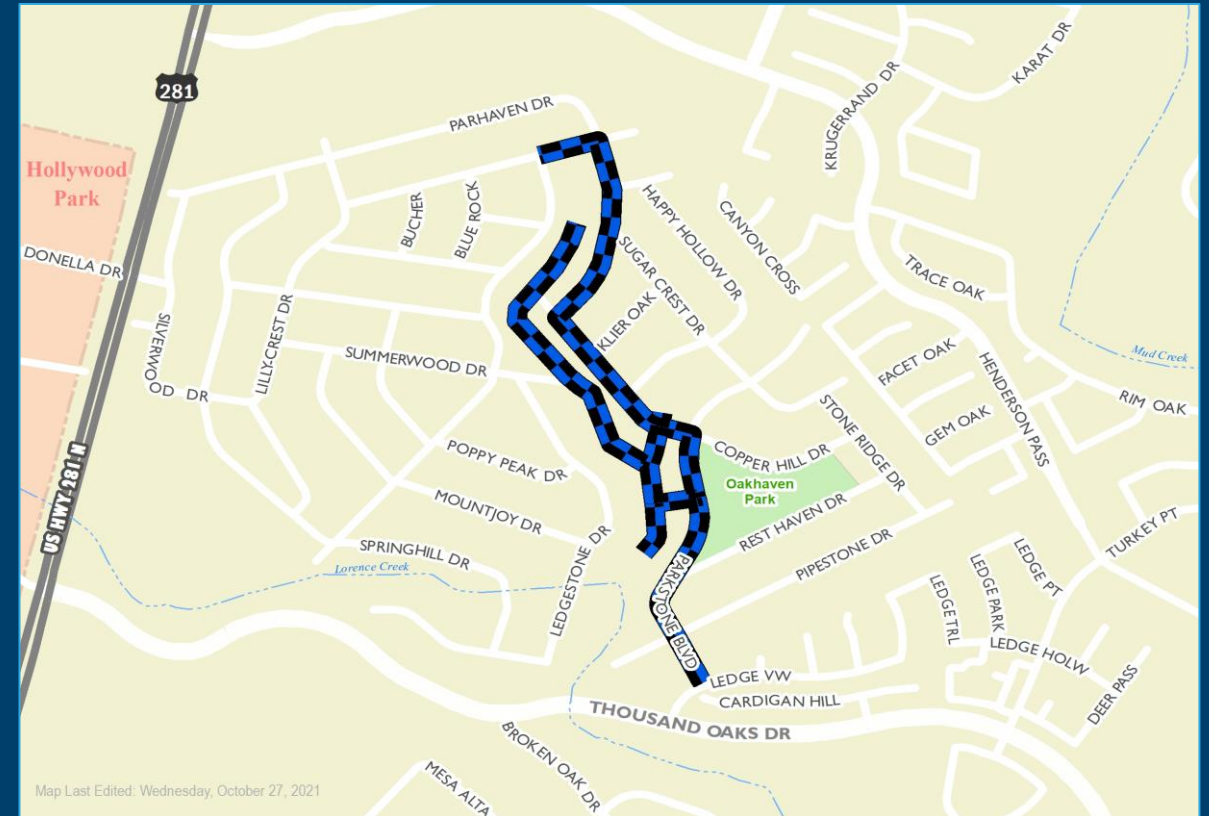
Kentwood Manor Phase 2 Drainage

(Copper Hill, Parkstone Boulevard, Mt. Everest)

\$7.4 M 2022 Bond Drainage

\$7.4 Million

Project will construct an underground storm water system and associated curbs and sidewalks to alleviate localized flooding and improve stormwater conveyance.



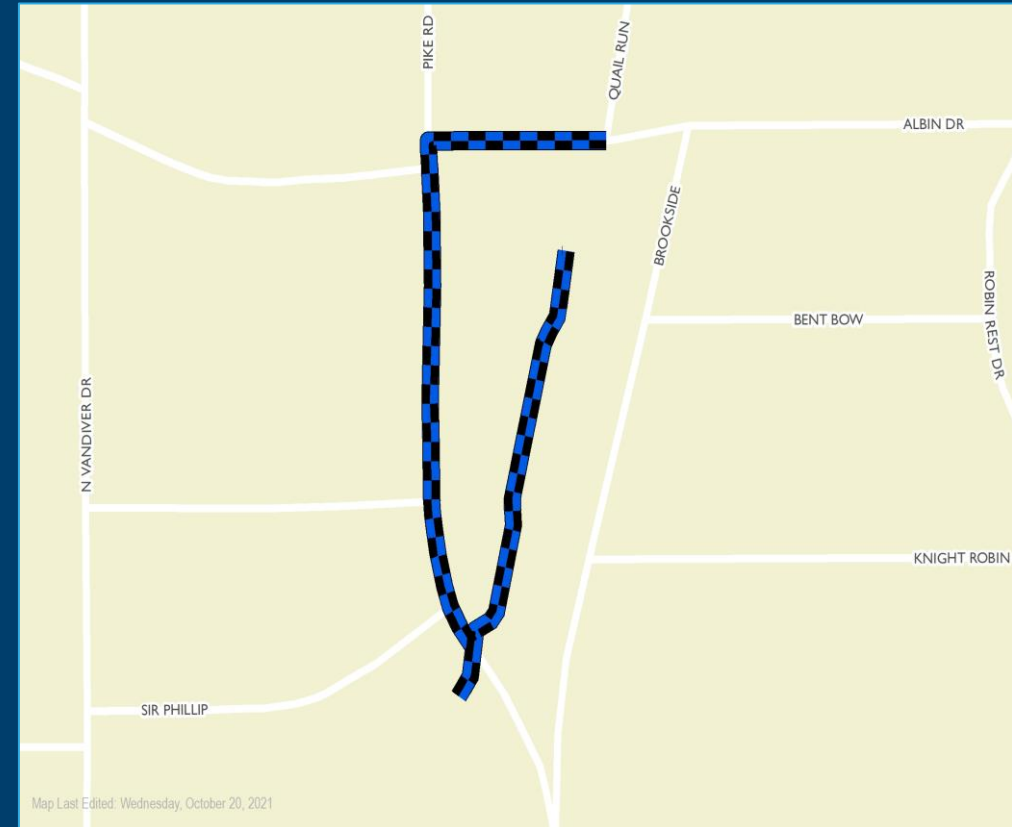
Eisenhauer Northwood Devonshire Area

Phase 1A (Pike from Albin to Brookside)

\$11.5 M 2022 Bond Drainage

\$11.5 Million

A continuation and hazard mitigation project that will alleviate street flooding by installing an underground drainage system and associated street reconstruction.



Public Art: Drainage & Flood Management

\$ 2.4 Million

Increase allocation to 1.5% of funding for the construction, improvement and installation of public art that is accessible to general public, within city limits, related to projects within proposition.



PROPOSED 2022-2027

BOND

PROGRAM

City of San Antonio

**2022 Bond Program
Development Process**

October 28, 2021

PRESENTED BY: CITY MANAGER'S OFFICE & PUBLIC WORKS